HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

DA-4 CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KV-30HS510	RM-Y191	US	SCC-S66N-A
KV-30HS510	RM-Y191	CANADA	SCC-S70M-A
KV-30HS510	RM-Y191	HAWAII	SCC-S69E-A

ORIGINAL MANUAL ISSUE DATE: 8/2003

☛ :UPDATED ITEM

REVISION DATE	REVISION TYPE	SUBJECT
8/2003	No revisions or updates are applicable at this time.	
3/2004	Removed landing settings information from 2-1. Beam Landing instructions (Don't apply to this model.) Replaced page 12 with page 12. Added complete Service Data List, Replaced pages 25-27 with pages 25-A through 25-FF. (Note: Removed page 26) Replaced page 27 with page 27.	
12/2004	Corrected D Board Schematic Page 2. Replaced page 33 with page 33. Corrected ID Map Table for KV-30HS510 Replaced page 27 with page 27.	

TRINITRON® COLOR TELEVISION

SONY

9-965-952-03

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Self Diagnosis Supported model

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KV-30HS510

RM-Y191

TRINITRON® COLOR TELEVISION

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SPECIFICATIONS

	KV-30HS510
Power Requirements	120V, 60Hz
Number of Inputs/Outputs	
Video [1]	4
S Video [2]	3
Y,P_B, P_R [3]	2
Audio [4]	7
Audio Out [5]	1
DVI-HDTV [6]	1
Control-S (In/Out)	YES
Speaker Output (W)	7.5W x 2 15W Subwoofer
Power Consumption (W)	
In Use (Max)	280W
In Standby	1W
Dimensions (W x H x D)	
mm	898 x 576 x 564 mm
in	35 3/8 x 22 3/4 x 22 1/4 in
Mass	
kg	76 kg
lbs	167 lbs 9 oz

1) 1 Vp-p 75 ohms unbalanced, sync negative
2) Y: 1 Vp-p 75 ohms unbalanced, sync negative
   C: 0.286 Vp-p (Burst signal), 75 ohms
3) Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative;
   P_B: 0.7 Vp-p, 75 ohms
   P_R: 0.7 Vp-p, 75 ohms
4) 500 mVrms (100% modulation), Impedance: 47 kilohms
5) More than 408 mVrms at the maximum volume setting (variable)
   More than 408 mVrms (fix); Impedance (output): 2 kilohms
6) 3.3V T.M.D.S., 50 ohms
   The DVI-HDTV input terminal is complieant with the EIA-861 standard and is not intended for use with personal computers.

Television system
American TV standard, NTSC

Channel coverage
VHF: 2-13/ UHF: 14-69/ CATV: 1-125

Picture tube
FD Trinitron® tube

Visible screen size
30-inch picture measured diagonally

Actual screen size
32-inch measured diagonally

Antenna
75 ohm external terminal for VHF/UHF

Supplied Accessories
Remote Commander RM-RM-Y191
Two Size AA (R6) Batteries

Optional Accessories
AV Cable: VMC-810/820/830 HG
Audio Cable: RKC-515HG
Component Video Cable: VMC-10/30 HG

TV Stand: SU-30HS1

Memory Stick Media: 8MB (MSA-8A); 16MB (MSA-16A); 32MB (MSA-32A); 64MB (MSA-64A); 128MB (MSA-128A)

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Design and specifications are subject to change without notice.

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WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Apres avoir deconnecte le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au chassis metallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

8. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instructions.

2. A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson’s 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

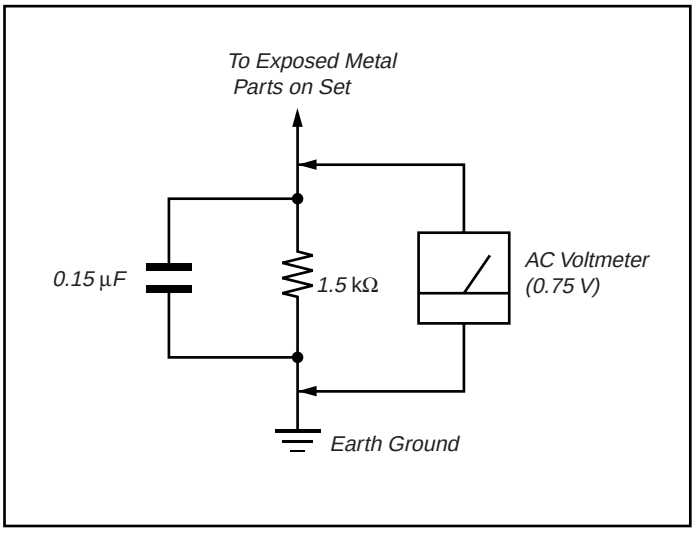

Figure A. Using an AC voltmeter to check AC leakage.

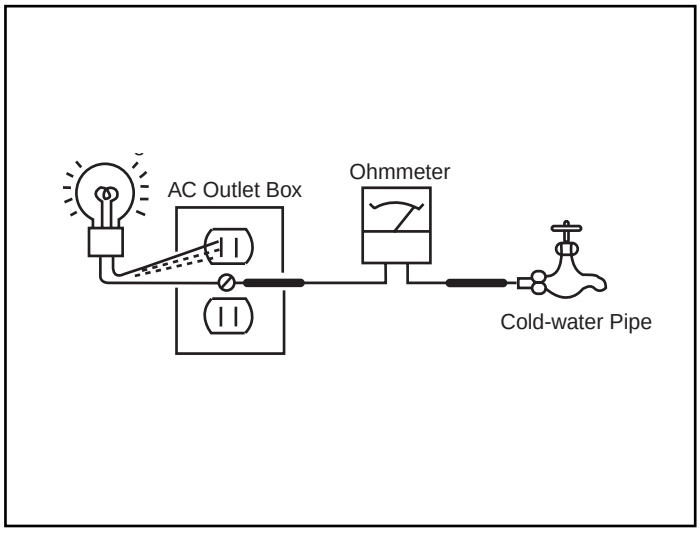

Figure B. Checking for earth ground.

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SELF-DIAGNOSTIC FUNCTION

Self Diagnosis Supported model

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

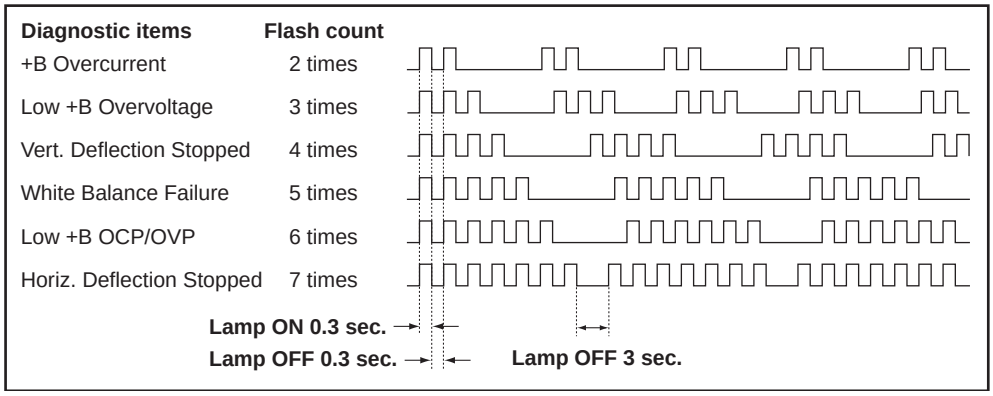
When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", an error has occurred.

Diagnostic Item	No. of times STANDBY / TIMER lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	_____	• Power cord is not plugged in. • Fuse is burned out (F501). (A Board)	• Power does not come on. • No power is supplied to the TV. • AC Power supply is faulty.
+B Overcurrent (OCP)*	2 times	2:0 or 2:1	• H.OUT (Q5030) is shorted. (D Board) • +B PWM (Q5003) is shorted. (D Board)	• Power does not come on. • Load on power line shorted.
Low +B Overvoltage (OVP)	3 times	3:0 or 3:1	• IC6505 is faulty. (D Board)	• Has entered standby mode.
Vertical Deflection Stopped	4 times	4:0 or 4:1	• 15V is not supplied. (D Board) • IC5004 is faulty. (D Board)	• Has entered standby mode after Horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
White Balance Failure (not balanced)	5 times	5:0 or 5:1	• Video OUT (IC9001-IC9003) is faulty. (CX Board) • CRT drive (IC2801) is faulty. (B Board) • G2 is improperly adjusted.**	• No raster is generated. • CRT cathode current detection reference pulse output is small.
LOW +B OCP/OVP (overcurrent/overvoltage)***	6 times	6:0 or 6:1	• +5 line is overloaded. (A, B, M Boards) • +5 line is shorted. (A, B, M Boards) • IC504 is faulty. (A Board)	• No picture
Horizontal Deflection Stopped	7 times	7:0 or 7:1		• No picture

* If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.
** Refer to Screen (G2) in Section 2-5 of this manual.
*** If STANDBY/STEREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment.

Display of Standby/Timer LED Flash Count



* One flash count is not used for self-diagnostic.

Stopping the Standby/Timer LED Flash

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER LAMP from flashing.

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Self-Diagnostic Screen Display

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:

DISPLAY ➡ Channel 5 ➡ Sound volume - ➡ Power ON.

SELF DIAGNOSIS	
2: +B OCP	0
3: +B OVP	0
4: VSTOP	0
5: AKB	1
6: LOWB	0
7: H-STOP	0
101: WDT	24

Numeral “0” means that no fault was detected.

Numeral “1” means a fault was detected one time only.

Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

Clearing the Result Display

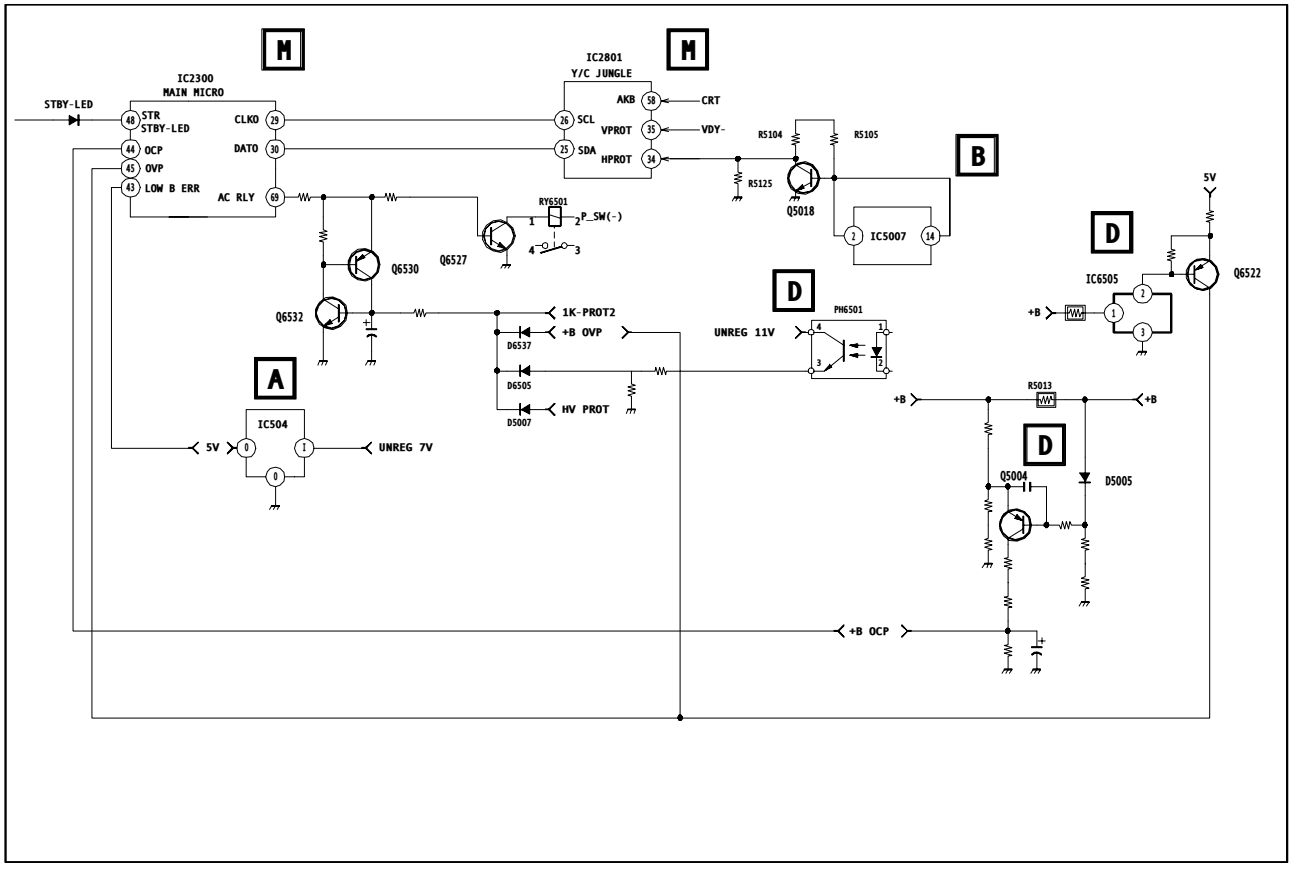
To clear the result display to “0”, press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

Channel 8 ➡ ENTER

Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-Diagnostic Circuit



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+B overcurrent (OCP)
Occurs when excessive current flows through R5013. The increase in voltage across R5013 causes the output of Q5004 to go high, and this high signal goes to the micro.

+B overvoltage (OVP)
IC6505 detects +B OVP condition and turns on Q6522. This sends a high signal to the micro and also shuts down the AC relay.

V-STOP
Occurs when an absence of the vertical deflection pulse is detected by pin 24 of IC2801 (B Board). Power supply will shut down when waveform interval exceeds 2 seconds.

White Balance Failure
If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC2801. TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

Low B OCP/OVP
Occurs when set 5V is out.

Horizontal Deflection Stopped
Occurs when either:

1) a +B overcurrent is detected (IC5007), or
2) overheating is detected (Thermistor TH5002).

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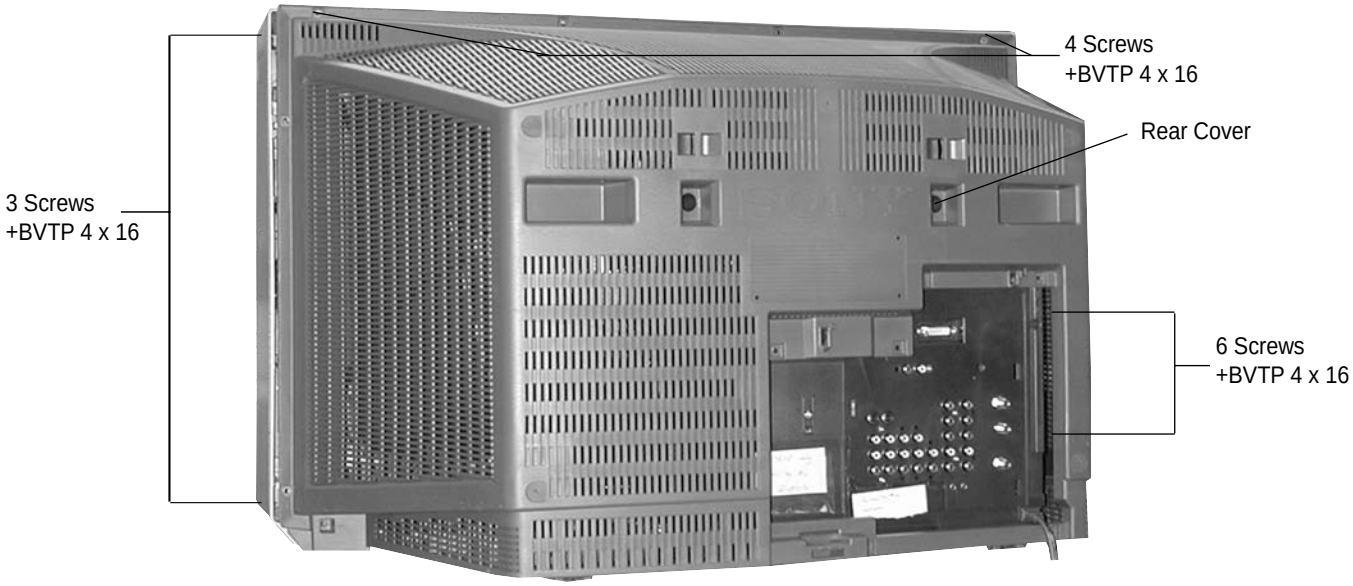
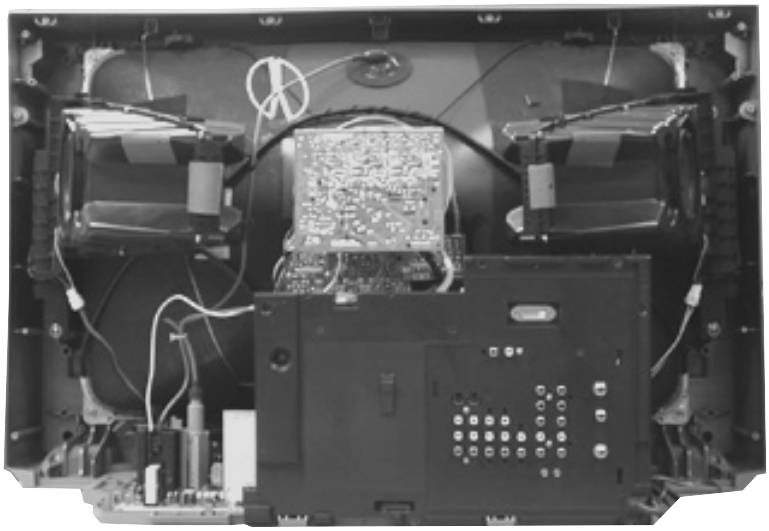
SECTION 1: DISASSEMBLY

1-1. REAR COVER REMOVAL

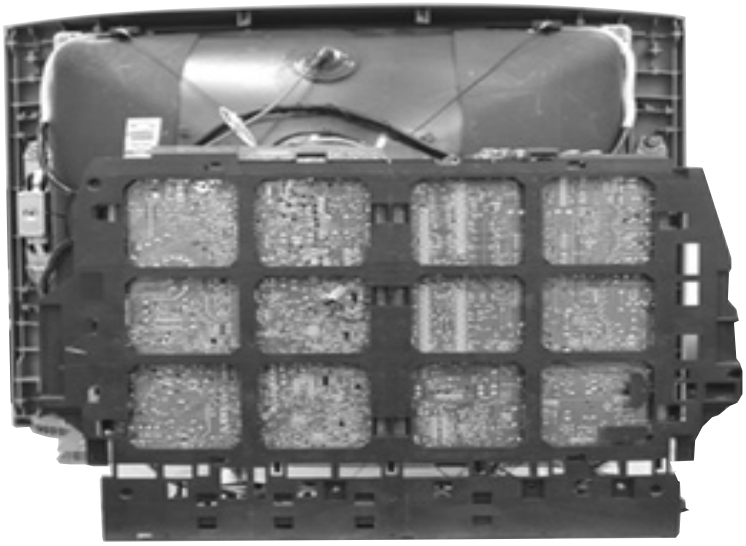


1-2. CHASSIS ASSEMBLY REMOVAL



1. Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.
2. Pull up and rotate both the A and D Boards in order to service the unit.

1-3. SERVICE POSITION



1. **CAUTION!** - Heat sink on IC5004 is -15V. Care must be taken not to allow heat sink to touch any other components.
2. Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.
3. Pull up and rotate both the A and D Boards in order to service the unit.

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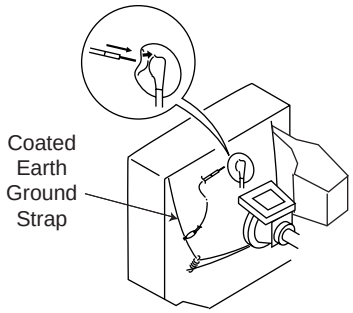
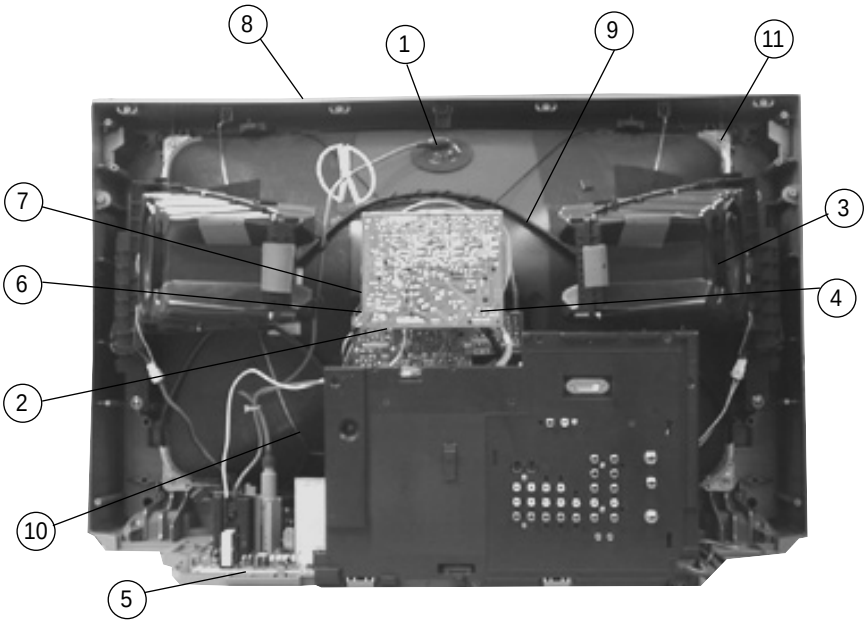
1-4. PICTURE TUBE REMOVAL

WARNING: BEFORE REMOVING THE ANODE CAP
High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.





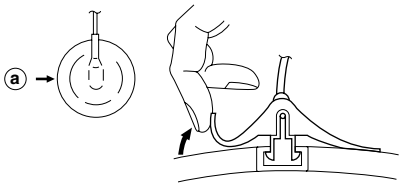
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove the Speaker Assemblies.
4. Remove the CX Board from the CRT.
5. Remove the chassis assembly.
6. Loosen the neck assembly fixing screw and remove.
7. Loosen the deflection yoke fixing screw and remove.
8. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
9. Remove the degaussing coils.
10. Remove the CRT grounding strap and spring tension devices.
11. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

ANODE CAP REMOVAL PROCEDURE

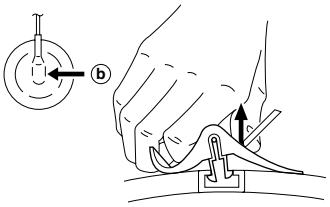
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. After removing the anode cap, short circuit to either the metal chassis, CRT shield, or carbon painted on the CRT.

NOTE: After removing the anode cap, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield or carbon painted on the CRT.

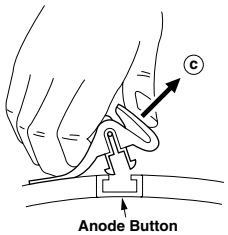
REMOVAL PROCEDURES



Turn up one side of the rubber cap in the direction indicated by arrow a .



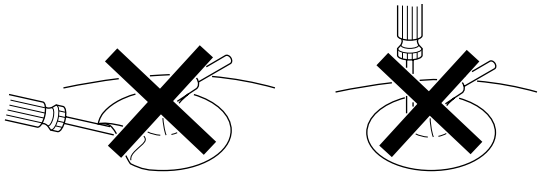
Use your thumb to pull the rubber cap firmly in the direction indicated by arrow b .



When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow c .

HOW TO HANDLE AN ANODE CAP

1. Do not use sharp objects which may cause damage to the surface of the anode cap.
2. To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.
3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



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SECTION 2: SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted:

VIDEO MODE: STANDARD (RESET)

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)
5. White Balance

Test Equipment Required:

1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital Multimeter

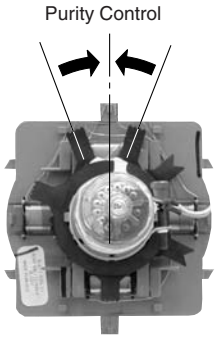
2-1. BEAM LANDING

Preparation:

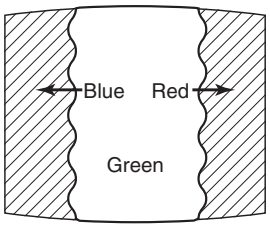
- Use cross hatch signal to rough adjust focus, G2 and then input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.
- Confirm data in service mode to match with CRT screen size.
  - CXA2170D-4
  - CXA8070 (Should be set to default)
  - VCEN, VPIN, HTPZ, PPHA, VANG, LANG, VBOW, LBOW (Should be set to default value).
- Set all user compensations to their default settings.

NOTE: Do not use the hand degausser; it magnetizes the CRT .

1. Input white pattern from pattern generator. Set the PICTURE control to maximum, and the BRIGHTNESS control to standard.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



3. Input a green pattern from the pattern generator.
4. Move the deflection yoke backwards, (See Figure 1) and adjust with the purity control so that green is in the center and red and blue are even on both sides.



5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.

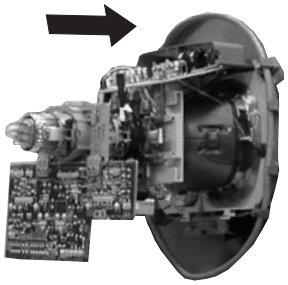


Figure 1

6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.

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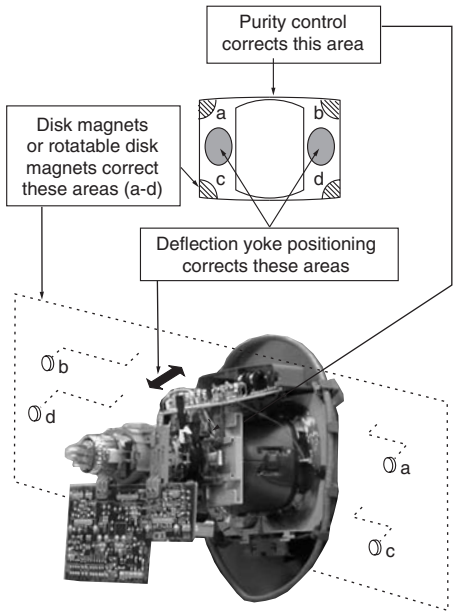
8. Set corner landing adjustments.

   To get optimal landing, adjust LT, LB, RT, and RB with Service Data -/+ 70.

NOTE: If landing adjustment exceeds the limit, as a last resort you can adjust it by using the disk magnets.



2-2. V-PIN AND V-CEN ADJUSTMENT

Preparation:

- Input a cross hatch pattern signal.
- Set Video Mode to: Standard (Reset)
- For all 4X3 CRT, VPIN data has separate register for full and V-compress. Adjust both modes if needed.

1. Adjust service mode CXA2170D-1 05 V-CEN so that the top pin and bottom pin are symmetrical from top to bottom.
2. Adjust service mode CXA2170D-1 06 V-PIN so that the top pin and bottom pin are symmetrical from top to bottom.
3. Horizontal lines should be straight from left to right. Check landing for side effect.

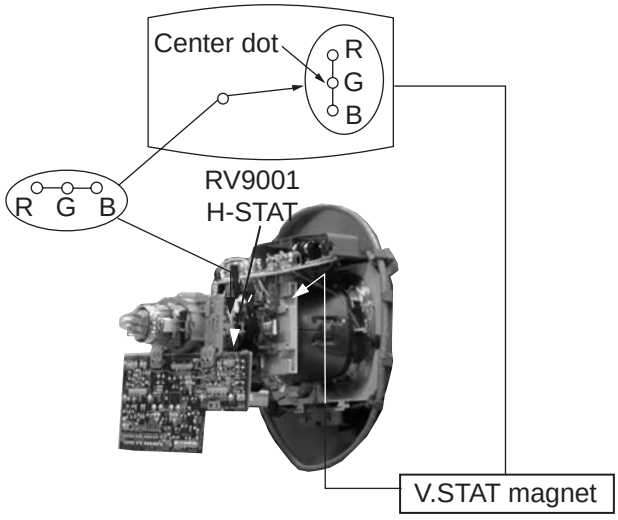
2-3. CONVERGENCE

Preparation:

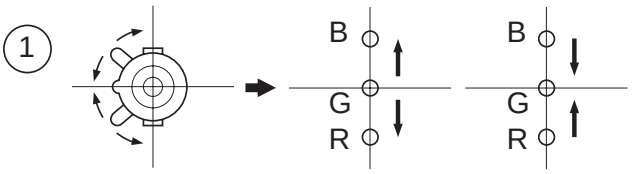
- Set the CONTRAST and BRIGHTNESS control to standard (reset).
- Input a cross hatch pattern signal.

2-3.1. VERTICAL AND HORIZONTAL STATIC CONVERGENCE

1. Disconnect the dynamic convergence before adjusting static convergence (CN903), except for minor touch-up.
2. Adjust H.STAT convergence, RV9001, to converge red, green, and blue dots in the center of the screen.
3. Connect dynamic convergence back.
4. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen.



5. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



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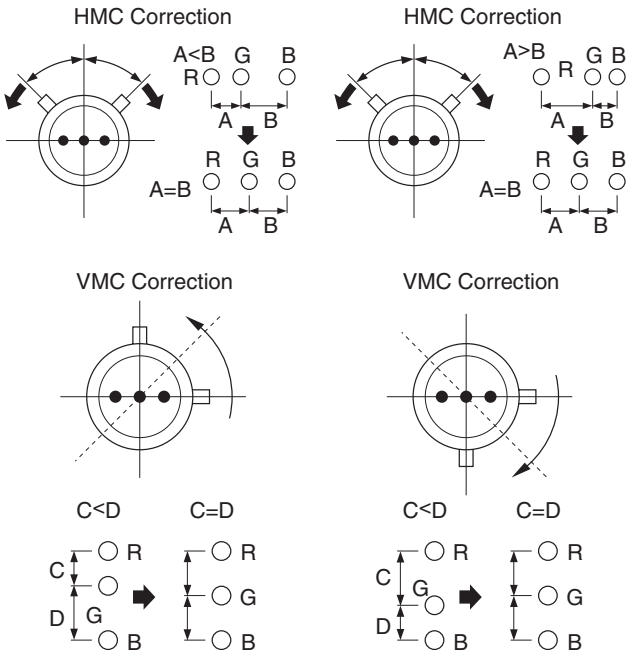
2-3.2. OPERATION OF BMC (HEXAPOLE) MAGNET

The respective dot positions result from moving each magnet interact. Perform the following adjustments while tracking.

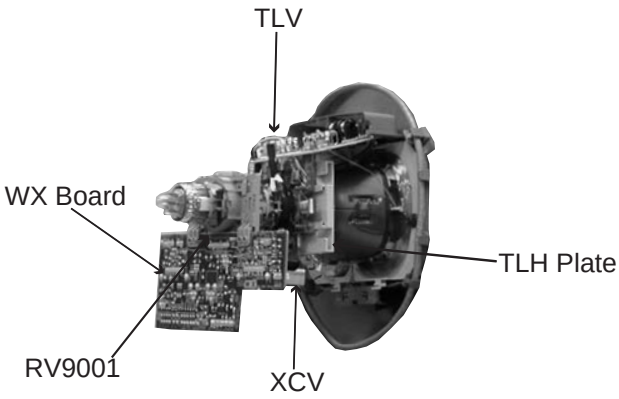
1. Use the BMC tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).

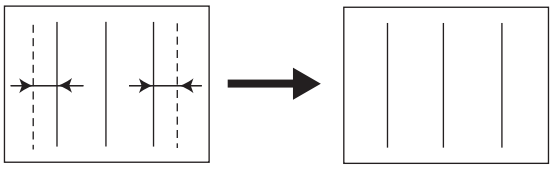


2-3.3. TLH PLATE ADJUSTMENT

Preparation:

- Input a cross hatch pattern signal.
- Adjust unbalanced horizontal convergence of red and blue dots by adjusting the TLH Plate on the deflection yoke.





B R (R)(B) R B (B)(R) TLH+ TLH-

1. Adjust XCV core to balance X axis.
2. Adjust the vertical red and blue convergence with V.TILT (TLV VR).

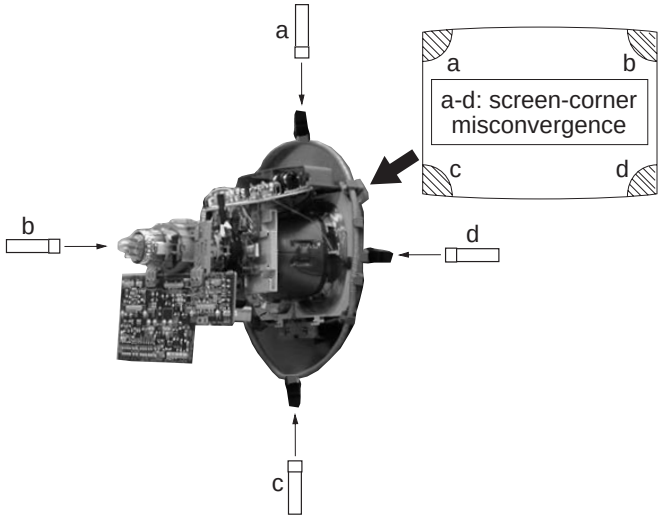
   Note: Perform adjustments while tracking Item 1.

2-3.4. SCREEN-CORNER CONVERGENCE

Preparation:

- Input a cross hatch pattern signal.

1. Affix a permalloy assembly corresponding to the misconverged areas.



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2-4. FOCUS ADJUSTMENT

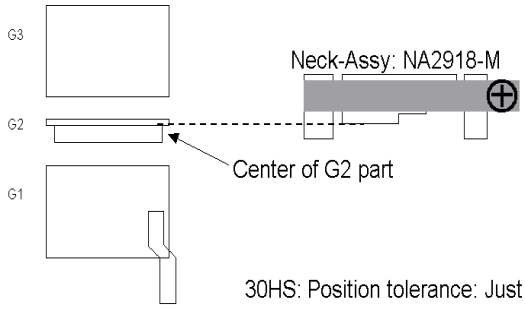
Confirm neck assembly Z axis position

1. Input a dot signal.
2. Set Video Mode to STANDARD.
3. Input a HD monoscope signal.
4. Confirm center focus with focus VR.

NECK ASSEMBLY

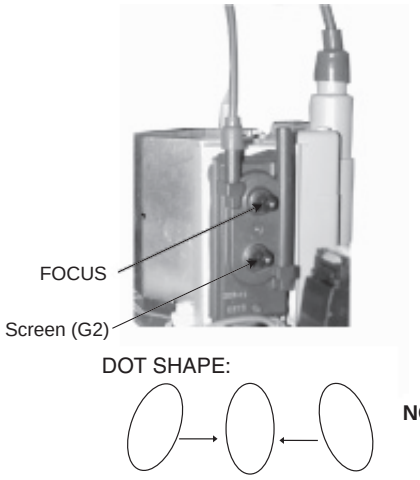
30HS CRT: 32RVE (Regular Pitch and Square Fannel)

Neck NA2918-M (NOT VA-Type, Square pin assignment, VPIN harness)



30HS: Position tolerance: Just position +/- 1.0mm (Target)
(Depend on H-AMP adjustment)
G1 Cup Holder

NOTE: Just position is the adjustment position from the center location indicated.



NOTE: The Neck Assembly tilt can effect dot shape.

NOTE: Changing neck assembly position will affect corner convergence.

2-4.1. DYNAMIC FOCUS/DYNAMIC QUADRA-POLE DATA

Normally, no adjustments are necessary for these systems. If for some reason the data is lost, use the initial data.

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2-5. SCREEN (G2)

1. Input composite white field into Video 1.
2. Set to service mode and adjust as follows:

(Fig 1)	Operation Procedure	Standards	Notes
CXA2170P-2 PICO 1 0	1) In Full mode, apply changes in Fig 1		
	2) Mount G2 adjustment jig. Adjust Cathode voltage if the standard is not met. Standard varies by CRT size.	170 +/- 5 (Vdc)	30HS510
	3) Adjust G2 by Flyback Transformer (T8001).		
	4) Return data changes in 1) to original condition.		

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2-6. PICTURE QUALITY ADJUSTMENTS

Preparation:
- Set PRO MODE (Reset).

1. Input signal (480i Composite):
   - Color Bar Video 75 IRE (White) 75% modulation 7.5% Set-up.
   - Color Bar RF 75 IRE (White) 75% modulation 7.5% Set-up.

2-6.1. VIDEO INPUT - SUB CONTRAST ADJUSTMENT

Preparation:
- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: Single (PRO MODE Reset).
- Picture: Max

1. Set to Service Mode and adjust as follows:

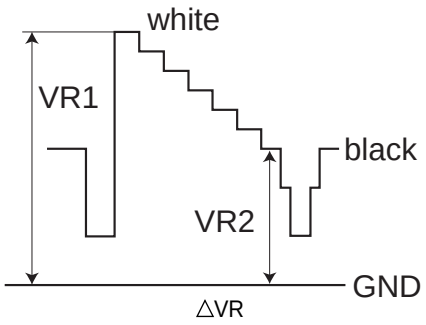
2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

2. Connect oscilloscope to Pin 1 of CN9001 (R.DRV) on the C Board.
3. Adjust contrast according to the service mode item: SPIO.

2170-P4

NO.	Name	Control Function
04	SPIO	SUB-CONT



(KV-30HS510) = 1.67 ± 0.05 Vpp

4. Write data from Step 3 above, into memory.

2-6.2. VIDEO INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:
- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: Single (PRO MODE Reset).
- Picture: Max

1. Set to Service Mode and adjust as follows:

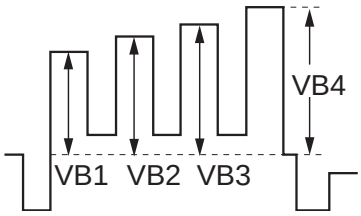
2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

2. Connect an oscilloscope to Pin 5 of CN9001 (B. DRV) on the C Board.
3. Adjust color according to Service Mode for SCLO.
4. Adjust color according to Service Mode for SHUO.

2170P-4

NO.	Name	Control Function
05	SCLO	SUB-COLOR
06	SHUO	SUB-HUE



COLOR: VB1 ≤ VB4 (=20 ± 40 mV)

HUE: VB2 ≤ VB3 (=20 ± 40 mV)

7. Write data into memory.

2-6.3. RF INPUT - TWO PICTURE SUB CONTRAST ADJUSTMENT

Preparation:
- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- Picture: Max

1. Set to Service Mode and adjust as follows:

2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

2. Connect an oscilloscope to Pin 1 of CN9001 (R. DRV) on the C Board.
3. Adjust MAIN (left) side contrast according to service mode for SCON.

2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT

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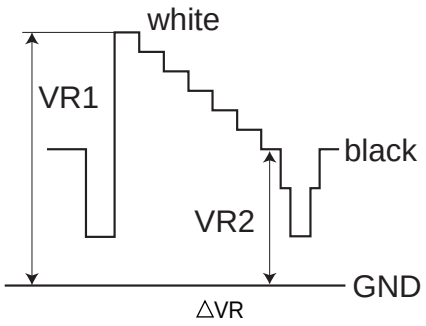
4. Adjust SUB (right) side contrast according to Service Mode for SCON.

2103-2

NO.	Name	Control Function
02	SCON	SUB-CONT



(KV-30HS510) = 1.67 ± 0.05 Vpp

5. Write data from Steps 3 - 4 above, into memory.
6. Set Service Mode

2-6.4. RF INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE Reset).
- Picture: Max

1. Set to Service Mode and adjust as follows:

2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the C Board.
3. Adjust MAIN (left) side color according to Service Mode for SCOL.
4. Adjust MAIN (left) side color according to Service Mode for SHUE.

2103-1

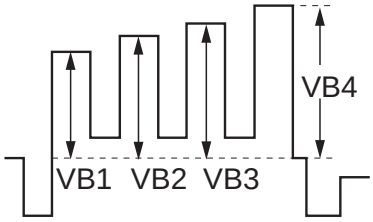
NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE

5. Adjust SUB (right) side color according to Service Mode for SCOL.

6. Adjust SUB (right) side color according to Service Mode for SHUE.

2103-2

NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE



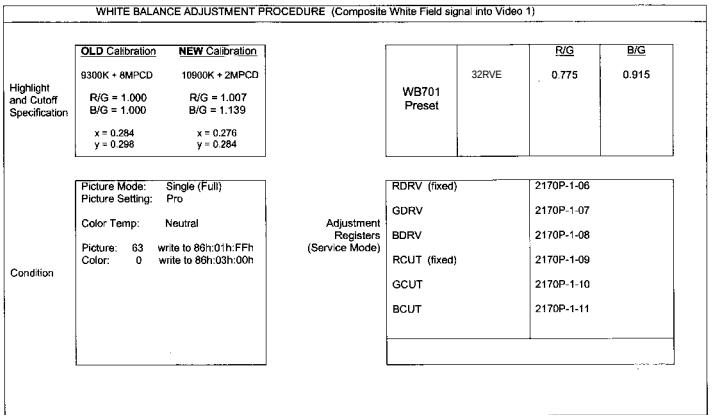
COLOR: VB1 ≤ VB4 (=20 ± 40 mV)
HUE: VB2 ≤ VB3 (=20 ± 40 mV)

7. Write data into memory.

2-7. WHITE BALANCE (CRT) AND SUB BRIGHT ADJUSTMENT

Preparation

- Input an all white 480I (15.734 KHz) signal into the VIDEO 1 input terminal to perform the White Balance (highlight, cut-off) adjustments. The parameters to adjust are in the CXA2170P in Service Mode.



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2-7.1. COLOR OFFSET ADJUSTMENT PROCEDURE

Preparation:
- Input an all white (30 IRE) signal to the specified input.
- Adjust the white balance using the specified registers.

VIDEO 1

CXA2103-1

NO.	Name	Control Function
20	CBO1	CB OFFSET
21	CRO1	CR OFFSET

VIDEO 5

CXA2103-1

NO.	Name	Control Function
20	CBO1	CB OFFSET
21	CRO1	CR OFFSET

VIDEO 7 - DVI

CXA2103-1

NO.	Name	Control Function
22	CBO2	CB01 (FROM VIDEO 5) - 5
23	CRO2	CR01 (FROM VIDEO 5) -4

2-8. H RASTER CENTER ADJUSTMENT

Preparation:
- Input a monoscope signal.
- Set to NTSC (DRC) mode.

1. Set to Service Mode and adjust as follows:

CXA2150P-2

NO.	Name	Control Function	Avg. Data
06	AGNG	AGING 1, AGING 2	2

CXA2150D-2

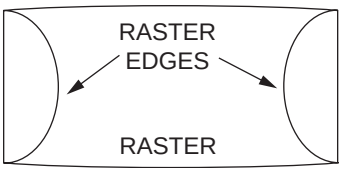
NO.	Name	Control Function	Avg. Data
02	HSIZ	Horiz Size	45

CXA2150D-3

NO.	Name	Control Function	Avg. Data
00	HBLK	Blanking Enable	0

2. Reduce HSIZ to see sides of raster.
3. Adjust H-Center with CXA2170D-2.
4. Adjust to the best screen position with H-CENT and write data.
5. Restore aging, HSIZ and HBLK to original condition.

Raster Edge Equal:



2-9. PICTURE DISTORTION ADJUSTMENTS

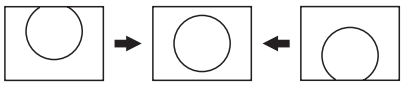
2-9.1. NTSC (DRC) FULL MODE ADJUSTMENT

1. Face the picture tube in an east-west direction. (For best condition.)
2. Complete V-PIN and V-CEN adjustments first (A2170-D1 06 V-PIN, A2170-D1 05 V-CEN).
3. Input a monoscope and crosshatch signal. Adjust the picture distortion with the following service parameters to balance the best condition for these two signals.

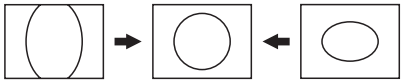
   NOTE: Make sure that the picture size is within specs. Vertical size is 11.8 ± 0.1 sq. and horizontal size is 15.8 ± 0.1 sq.
4. Write data into memory before changing modes.

CXA2170D-1

Item 0. VPOS (V-POSITION)



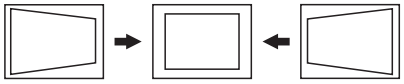
Item 1. VSIZ (V-SIZE)



Item 3. VLIN (V-LINE)

Item 4. VSCO (VS-COR)

Item 9. HTPZ (H-TRAPEZOID)



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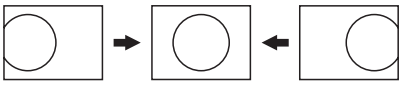
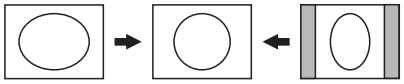
CXA2170D-2

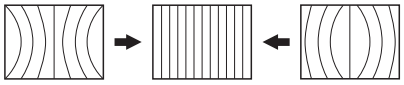
Item 1. HPOS (H-POSITION)



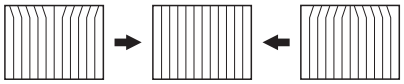
Item 2. HSIZ (H-SIZE)



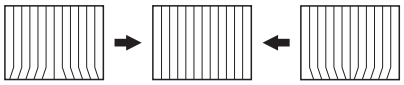
Item 5. PIN (PIN AMP)



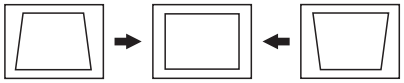
Item 7. UCP (UP COR PIN COR)



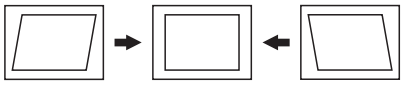
Item 8. LCP (LOW CO PIN COR)



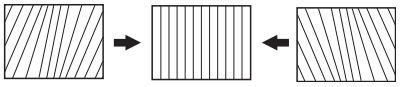
Item 14. PPHA (PIN PHASE)



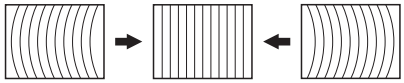
Item 15. VANG (AFC-ANGLE)



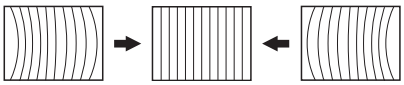
Item 16. LANG (L-ANGLE)



Item 17. VBOW (AFC-BOW)



Item 18. LBOW (L-BOW)



2-9.2. 1080I HD MODE ADJUSTMENT

1. Input a 1080i cross-hatch signal and an HD monoscope signal that contains overscan markers.
2. Adjust the raster position per Section 2-8., only if this procedure was not performed for full mode.
3. Adjust the geometry similar to Full DRC mode. Vertical size is 11.7 ± 0.1 sq. and horizontal size is 15.6 ± 0.1 sq., if monoscope signal is available. Otherwise, set the Vertical size to 91.0 ± 0.6% scan and Horizontal size as 91.0 ± 0.6% scan.
4. Use the following register to adjust the horizontal parameter:

A2150-D2	01	HPOS

NOTE: If necessary, touch up the geometry using the data register listed above for Full mode. Check NTSC full mode for side effect and balance.

5. Write the data into memory before changing modes.

2-9.3. TWIN MODE/FAVORITE/INDEX/ NORMAL MODE GEOMETRY CONFIRMATION

TWIN mode and FAVORITE mode use the FULL mode adjustment data. The key point for TWIN mode adjustment is the blue border appearance. The left border on the left picture should not be visible when the left picture is selected. Similarly, the right border on the right picture should not be visible when the right picture is selected. Balance the HPOS or HSIZ data for FULL and TWIN mode.

For INDEX mode, however, no clipping of the picture edge should be visible for the small sampled pictures on the right side. Adjust HSIZ/ HPOS to balance FULL and INDEX mode for this. Avoid displaying the edge of the raster in FULL or FAVORITE mode.

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SECTION 3: SAFETY RELATED ADJUSTMENTS

3-1. PREPARATION BEFORE CONFIRMATION

Standard ..... 135.3 ± 1 VAC
Check Condition:
AC input voltage: 120 (± 2) VAC
Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.
Setting Mode: ..... Full mode
Signal Input: ..... Cross-hatch of NTSC
Initial Setting: ..... Standard Reset condition
Confirm Point: ..... Across CN5509 PIN 9 for B+ of D Board

3-1.1 HOLD-DOWN OPERATION CONFIRMATION

1. Using an external DC power supply, apply 5.3 ± 0.5 Vdc between Pin 2 of CN507 (jig connector) and ground (Pin 8); confirm set goes to hold-down (main power relay click).
2. Remove the external DC power supply.

3-2. B+ MAX CONFIRMATION

Standard 135.3 ± 1 VAC
Check Condition:
AC input voltage: 120 (± 2) VAC
Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.
Setting Mode: ..... Full mode
Signal Input: ..... Cross-hatch of NTSC
Initial Setting: ..... Standard Reset condition
Confirm Point: ..... Across CN5509 PIN 9 for B+ of D Board

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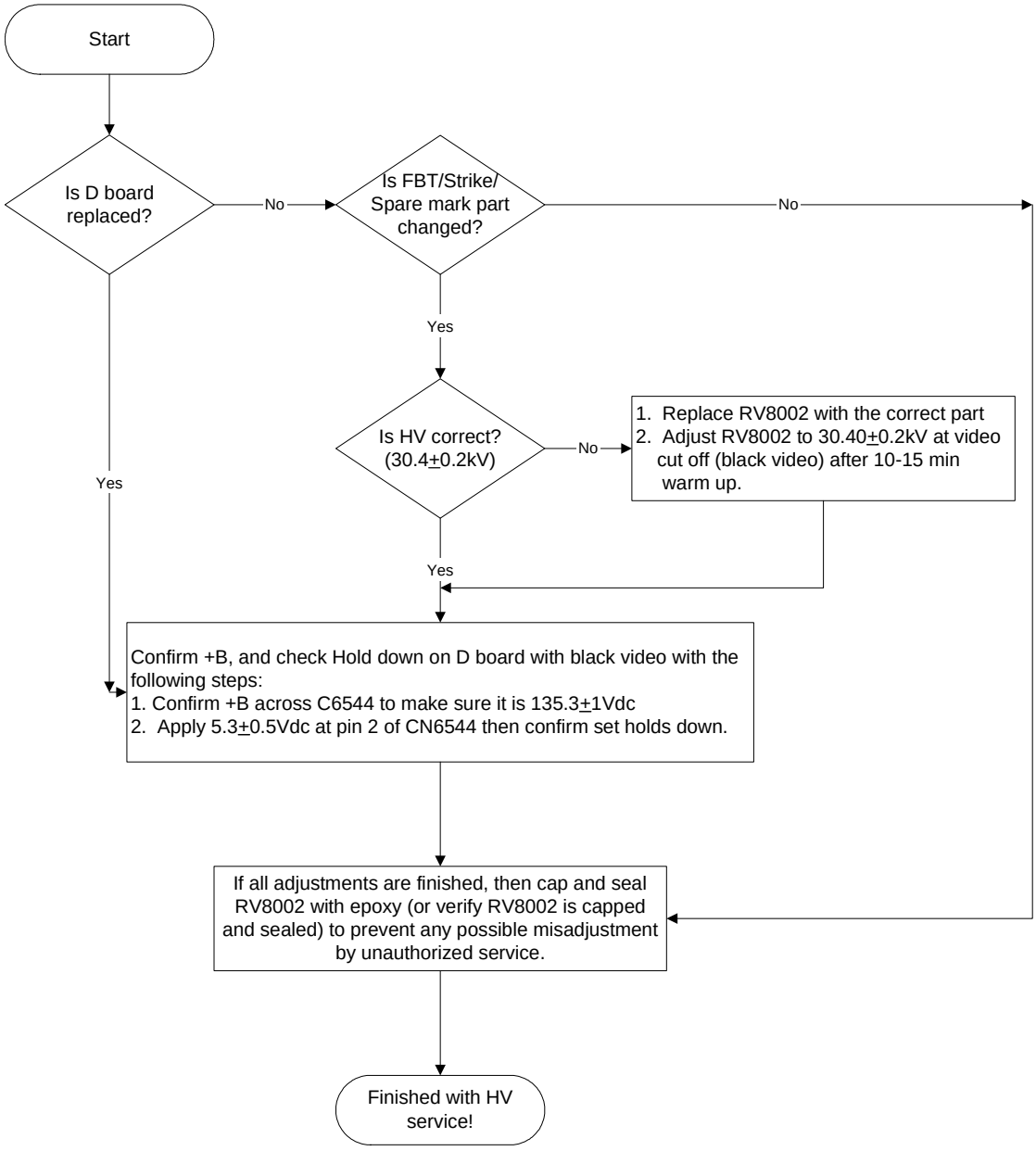
3-3. HV SERVICE FLOWCHART

KV-30HS510 HV SERVICE FLOW CHART



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SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

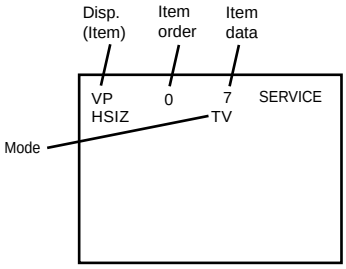
Use the Remote Commander (RM-Y191) to perform the circuit adjustments in this section.

Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

4-1. SETTING SERVICE ADJUSTMENT MODE

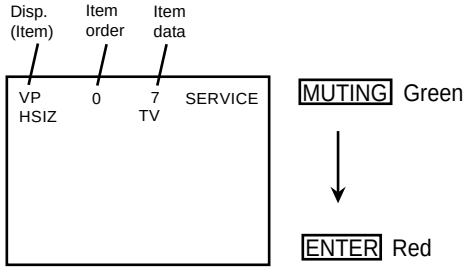
1. Standby mode (Power off).
2. Press the following buttons on the remote commander within a second of each other:
   DISPLAY → Channel 5 → Sound Volume + → Power

4-1.1. SERVICE ADJUSTMENT MODE IN

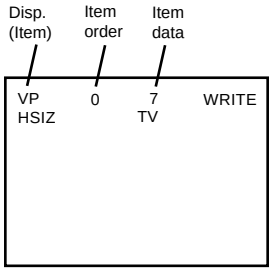


3. The CRT displays the item being adjusted.
4. Press 1 or 2 on the Remote Commander to select the item.
5. Press 3 or 6 on the Remote Commander to change the data.
6. Press MUTING then ENTER to write into memory.

4-1.2. SERVICE ADJUSTMENT MODE MEMORY



7. Press then on the Remote Commander to initialize.



8. DO NOT turn off set until SERVICE appears.

4-1.3. READING THE MEMORY

1. Enter into Service Mode.
2. Press 0 on the Remote Commander.
3. Press ENTER to read memory.

4-1.4. ADJUSTING THE PICTURE

1. Enter into Service Mode
2. Press 2 or 5 on the remote to select the device item.
3. Press 1 or 4 on the remote to select an item.
4. Press 3 or 6 on the remote to change the data.
5. Press MUTING then ENTER to write into memory.

4-1.5. RESETTING THE DATA

Note: Be careful when using the remote! It will clear and re-initialize ALL NVM data including deflection adjustment data if not reset properly as follows:

4-1.6. RESETTING THE MID NVM DATA

1. Enter into Service Mode.
2. Press 7, then JUMP, and then press ENTER on the remote.

4-1.7. RESETTING THE SYSTEM NVM DATA

1. Enter into Service Mode.
2. Press 7, then 9, and then press ENTER on the remote.

4-1.8. COPY FUNCTION

How to use copy function for DA4 Chassis:

- After writing your adjusted data into NVM MUTING then ENTER , copy can be made by changing copy data from 0 to 1 then MUTING, ENTER again.

WARNING: DO NOT copy data before writing your corrected data in NVM. If data is copied before writing corrected data, old data will be copied.

- CPY1: DF/DQP DATA (CXA2170D-4 Item 6)
- CPY2: CONVERGENCE DATA (D-CONV Item 13)

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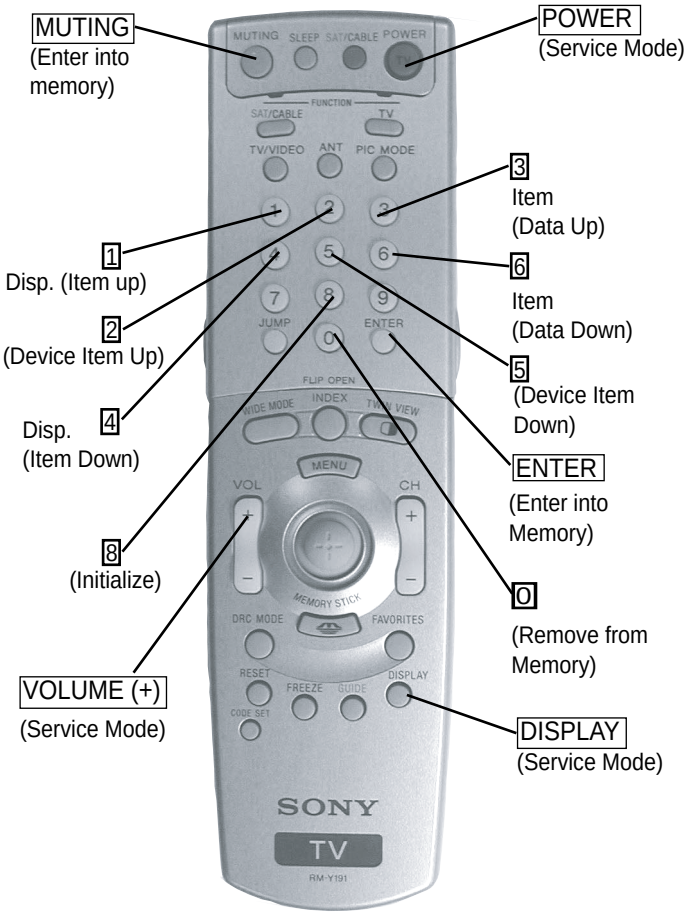
4-2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again to confirm they were adjusted.

4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



RM-Y191

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4-4. SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data								
VERSION	0	VER	0,1	0								
	1	DMY1	0-255	0								
3D_COMB	0	NRMD	0-3	0								
	1	CLKS	0-3	1								
	2	NSDS	0-3	0								
	3	MSS	0-3	0								
	4	KILS	0-3	1								
	5	FRZE	0, 1	0								
	6	EXCS	0-3	1								
	7	CDL	0-7	4								
				NRMD(0)	NRMD(1)	NRMD(2)	NRMD(3)					
	8	DYCO	0-15	2	2	2	2					
	9	DYGA	0-15	10	10	10	10					
	10	DCCO	0-15	5	5	5	5					
	11	DCGA	0-15	5	5	5	5					
	12	WSC	0-2	1								
	13	WSS	0, 1	0								
				Vivid	Standard	Movie	Pro					
	14	VAPG	0-7	4	2	2	0					
	15	VAPI	0-31	4	4	4	0					
	16	TEST	0, 1	0								
				Vivid	Standard			Movie		Pro		TWIN
				RF	CV/YC	RF	CV/YC	RF	CV/YC	RF	CV/YC	Any
	17	YPFT	0-3	3	3	3	3	3	3	3	3	3
	18	YPFG	0-15	9	5	7	5	5	6	5	5	6
	19	SEDC	0, 1	0								
	20	SEDY	0, 1	1								
	21	YHCO	0-3	1								
	22	YHCG	0, 1	0								
	23	SYSP	0-3	0								
	24	TES2	0-7	0								

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Category Name	No.	Item Name	Range	Initial Data				
2103_1								
				480i	Others			
	0	YLEV	0-62	34	20			
	1	CLEV	0-63	40	17			
				RF	CV/YC			
	2	SCON	0-15	9	9			
	3	SCOL	0-15	2	2			
	4	SHUE	0-15	11	5			
	5	YDLY	0-3	0	0			
				RF	CV	V5	YC	
	6	SHAP	0-15	9	8	4	8	
	7	SHF0	0-3	0	0	3	0	
	8	PREO	0-3	3	3	3	3	
	9	BPF0	0-3	3				
	10	BPFQ	0-3	0				
				RF	CV/YC			
	11	BPSW	0, 1	1	0			
	12	TRAP	0, 1	0				
	13	LPF	0, 1	1				
				RF	CV/YC	Others		
	14	AFCG	0, 1	1	0	0		
	15	CDMD	0-3	3	3	3		
	16	SSMD	0-3	0	0	0		
				RF	CV/YC	V5/V6	DVI	
	17	HMSK	0, 1	0	1	1	0	
	18	HALI	0, 1	0				
				RF	CV/YC	V5/V6	DVI	
	19	PPHA	0-15	7	7	7	0	
				RF	V5/V6			
	20	CBO1	0-63	34	36			
	21	CRO1	0-63	32	38			
	22	CBO2	0-63	32				
	23	CRO2	0-63	32				
				Single	BLK(0)	BLK(1)	BLK(2)	BLK(3)
	24	ATPD	0-3	0	1	1	2	1
	25	DCTR	0-3	0	2	1	3	2

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Category Name	No.	Item Name	Range	Initial Data	
2103_2					
				DRC	VDO
	0	YLEV	0-63	41	35
	1	CLEV	0-63	31	42
				RF	CV/YC
	2	SCON	0-15	9	9
	3	SCOL	0-15	2	2
	4	SHUE	0-15	11	5
	5	YDLY	0-3	0	0
	6	SHAP	0-15	6	8
	7	SHF0	0-3	0	0
	8	PREO	0-3	3	3
	9	BPF0	0-3	3	
	10	BPFQ	0-3	0	
				RF	CV/YC
	11	BPSW	0, 1	1	0
	12	TRAP	0, 1	0	
				DRC	VDO
	13	LPF	0, 1	1	0
				RF	CV/YC
	14	AFCG	0, 1	1	0
	15	CDMD	0-3	3	3
	16	SSMD	0-3	0	0
	17	HMSK	0, 1	0	1
	18	HALI	0, 1	0	
				RF	CV/YC
	19	PPHA	0-15	7	7
	20	CBO1	0-63	34	
	21	CRO1	0-63	32	

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Category Name	No.	Item Name	Range	Initial Data								
2170P_1												
				CV/YC	480i	VDO	MS	PT				
	0	YOSW	0, 1	1	0	0	0	0				
	1	TCOF	0, 1	0								
									DVI	DVI		
				DRC	DRC	V5/V6	V5/V6	V5/V6	480p	720p	PT	
				CV/YC	480i	480p	720p	1080i	VGA	1080i	1080i	MS
	2	YOF	0-15	0	15	7	7	7	7	7	7	7
	3	CBOF	0-63	31	31	31	31	31	31	31	31	31
	4	CROF	0-63	31	31	31	31	31	31	31	31	31
	5	SBRT	0-63	31								
	6	RDRV	0-63	32								
	7	GDRV	0-63	35								
	8	BDRV	0-63	34								
	9	RCUT	0-63	32								
	10	GCUT	0-63	35								
	11	BCUT	0-63	18								
				WARM	COOL							
	12	WBSW	0, 1	1								
	13	SBOF	0-15	7	7							
	14	RDOF	0-63	31	31							
	15	GDOF	0-63	34	31							
	16	BDOF	0-63	45	34							
	17	RCOF	0-63	31	31							
	18	GCOF	0-63	37	31							
	19	BCOF	0-63	63	34							
	20	DCOL	0-3	1								

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Category Name	No.	Item Name	Range	Initial Data	
2170P_2	0	PICO	0, 1	1	
	1	RGBS	0-7	7	
	2	BLKB	0-3	3	
	3	RGBL	0-3	2	
	4	YLMT	0-3	3	
	5	AGNG	0-3	0	
	6	AKBO	0, 1	0	
				Other	PT
	7	CLPP	0-3	3	3
	8	CLPG	0, 1	0	0
	9	CLPS	0, 1	0	0
	10	PPAD	0-7	3	3
	11	SYNP	0, 1	0	0
	12	HVBT	0, 1	0	

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Category Name	No.	Item Name	Range	Initial Data														
2170P_3																		
					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	0	SYSM	0-3	ViVid Mode	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15		7													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15		5	5	5	5	13	13	5	5	5	13	13	13	13	10
	6	SHOF	0-3		2	2	2	1	1	1	2	1	0	1	1	1	1	2
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	3	2	0	3	3	2	0	0	3	3	3	3	3
	9	F1LV	0-3		1	0	1	0	0	1	1	0	1	0	1	0	0	0
	10	LTLV	0-3		2	3	3	3	3	3	3	3	3	3	3	3	3	3
	11	LTMD	0, 1		1	1	1	0	1	0	1	0	1	1	0	1	1	1
	12	CTLV	0-3		0	0	0	0	3	3	0	0	0	3	3	3	3	0
	13	UBOF	0-7		0	0	0	1	1	1	0	1	0	1	1	1	1	1
	14	UCOF	0-7		2	2	2	2	2	2	2	2	2	2	2	0	0	2
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		7	11	15	19	23	27	31	35	44	39	43	48	52	56
					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	0	SYSM	0-3	Standard Mode	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15		7													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15		5	5	5	5	13	13	5	5	5	13	13	13	13	10
	6	SHOF	0-3		3	3	2	0	1	1	2	0	0	1	1	1	1	2
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	3	2	0	3	3	2	0	0	3	3	3	3	3
	9	F1LV	0-3		0	0	1	1	0	0	1	1	1	0	0	0	0	0
	10	LTLV	0-3		2	2	2	3	3	3	2	3	3	3	3	3	3	3
	11	LTMD	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	3	3	0	0	0	3	3	3	3	0
	13	UBOF	0-7		2	2	2	0	2	2	2	0	0	2	2	2	2	1
	14	UCOF	0-7		1	1	2	2	1	2	2	2	2	1	2	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		5	10	14	18	22	26	30	34	44	38	42	47	51	55

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Category Name	No.	Item Name	Range	Initial Data														
2170P_3																		
							Comp	Comp	Comp	Comp	DVI	DVI	DVI	DVI	DVI	MS	MS	
					RF	CV/YC	480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Menu	Single	Twin
	0	SYSM	0-3		1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15		7													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15	Movie Mode	5	5	5	5	13	13	5	5	5	13	13	13	13	10
	6	SHOF	0-3		1	1	1	1	1	1	1	1	0	1	1	1	1	1
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	3	2	1	3	3	2	1	0	3	3	3	3	3
	9	F1LV	0-3		0	0	0	0	0	0	0	0	1	0	0	0	0	0
	10	LTLV	0-3		1	1	1	2	1	1	1	2	3	1	1	1	1	1
	11	LTMD	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	2	2	0	0	0	2	2	2	2	0
	13	UBOF	0-7		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	UCOF	0-7		0	0	0	0	0	0	0	0	2	0	0	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		3	9	13	17	21	25	29	33	44	37	41	46	50	54
							Comp	Comp	Comp	Comp	DVI	DVI	DVI	DVI	DVI	MS	MS	
					RF	CV/YC	480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Menu	Single	Twin
	0	SYSM	0-3		1	1	2	1	3	3	2	1	1	3	3	3	3	2
	1	VMLV	0-15		7													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	0	0	0	0	0	0	1	0	0	0	0	0
	5	VMDL	0-15	Pro Mode	5	5	8	5	13	13	8	5	5	13	13	13	13	10
	6	SHOF	0-3		1	2	2	0	2	1	2	0	0	2	1	2	2	1
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	2	3	1	3	3	3	1	0	3	3	3	3	3
	9	F1LV	0-3		0	0	0	0	0	0	0	0	1	0	0	0	0	0
	10	LTLV	0-3		0	0	0	0	0	0	0	0	3	0	0	0	0	0
	11	LTMD	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	UBOF	0-7		2	2	2	1	1	1	2	1	0	1	1	1	1	2
	14	UCOF	0-7		0	0	0	0	0	0	0	0	2	0	0	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		0	8	12	16	20	24	28	32	44	36	40	45	49	53

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Category Name	No.	Item Name	Range	Initial Data			
2170P_3							
				Vivid	Standard	Movie	Pro
	17	VM	0-3	3	3	1	0
	18	VMH	0-15	15	15	12	12
	19	VMM	0-15	10	10	8	8
	20	VML	0-15	6	6	4	4
	21	VGAP	0-15	5			
	22	VGAS	0-15	0			
	23	VGAB	0-15	0			
	24	VGAC	0-15	0			
	25	VGAV	0-15	5			

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Category Name	No.	Item Name	Range	Initial Data															
2170P_4																			
				MS	Other														
	0	YCON	0, 1	0	1														
				DRC	VDO(V5/V6)	VDO (DVI)	MS	PT											
	1	SPIC	0-15	7	7	7	0	7											
	2	SCOL	0-63	31	31	31	31	31											
	3	SHUE	0-63	31	31	31	31	31											
	4	SPIO	0-15	7															
	5	SCLO	0-15	7															
	6	SHUO	0-15	7															
				Vivid	Standard	Movie	Pro												
	7	UPIC	0-63	63	48	39	31												
	8	UBRT	0-63	31	31	31	31												
	9	UCOL	0-63	35	31	31	31												
	10	UHUE	0-63	31	31	31	31												
	11	USHP	0-63	24	29	31	31												
	12	UTMP	0-3	2	1	0	1												
	13	RYR	0-15	8															
	14	RYB	0-15	9															
	15	GYR	0-15	9															
	16	GYB	0-15	6															
					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin	
	17	GAMM	0-3	Vivid	3	2	3	3	3	3	2	3	3	3	3	3	3	3	
				Standard	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
				Movie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				GAMM (0)	GAMM (1)	GAMM (2)	GAMM (3)												
	18	GAMS	0-15	0	8	8	8												
	19	GAMR	0-15	0	4	8	12												
	20	GAMG	0-15	0	4	8	12												
	21	GAMB	0-15	0	4	8	12												

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Category Name	No.	Item Name	Range	Initial Data														
2170P_4					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	22	BLK	0-3	Vivid	3	3	3	3	3	3	3	3	3	3	3	3	3	3
				Standard	2	2	2	2	2	2	2	2	2	2	2	3	2	2
				Movie	0	0	1	0	1	0	1	0	0	1	0	0	1	0
				Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0

				BLK (0)	BLK (1)	BLK (2)	BLK (3)
23	DCTR	0-15		0	3	7	12
24	APED	0-3		0	0	1	2
25	DSBO	0-15		7	7	7	7
				0	1	0	1
26	IDSW	0-7		0			

				BLK (0)	BLK (1)	BLK (2)	BLK (3)
27	ABLM	0-3		0	1	0	1

				Others	Small Pic
28	ABLT	0-15		0	7
29	SPOF	0-31		0	

				BLK (0)	BLK (1)	BLK (2)	BLK (3)
30	DPSQ	0, 1		1	1	1	1
31	LRGB	0-15		3			

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Category Name	No.	Item Name	Range	Initial Data					
2170D_1	0	VPOS	0-63	31					
	1	VSIZ	0-63	30					
				1080iFULL	Others				
	2	VSZO	0-63	0	0				
				WideZoom	Others				
	3	VLIN	0-15	8	8				
	4	VSCO	0-15	10	9				
	5	VCEN	0-63	31					
				1080Vcomp 480Vcomp	Others				
	6	VPIN	0-63	15	15				
	7	MVPN	0-3	0					
	8	NSCO	0-63	31					
	9	HTPZ	0-31	15					
	10	MHTZ	0-3	0					
				WideZoom	Zoom	Others			
	11	ZOOM	0, 1	1	1	0			
				WideZoom	Zoom	480FULL	1080FULL	1080Vcomp	480Vcomp
	12	APSW	0, 1	1	1	1	0	0	1
	13	ASPT	0-63	22	43	3	0	47	3
	14	SCRL	0-63	31	31	31	31	31	31
				WideZoom	Others				
	15	UVLN	0-15	4	0				
	16	LVLN	0-15	4	0				

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Category Name	No.	Item Name	Range	Initial Data				
2170D_2								
	0	HCNT	0-63	31				
				1080FULL 1080Vcomp	Others			
	1	HPOS	0-63	31	31			
				WideZoom	Others			
	2	HSIZ	0-63	49	40			
	3	SLIN	0-15	10	4			
	4	MPIN	0-15	10	8			
	5	PIN	0-63	40	31			
				WideZoom	Zoom	480FULL	1080FULL	1080Vcomp 480Vcomp
	6	PINO	0-15	7	7	7	7	7
				WideZoom	Others			
	7	UCP	0-63	31	35			
	8	LCP	0-63	31	35			
	9	UXCG	0-3	0				
	10	LXCG	0-3	0				
	11	UXCP	0-3	2				
	12	LXCP	0-3	2				
	13	XCPP	0, 1	0				
				WideZoom	Others			
	14	PPHA	0-63	20	20			
	15	VANG	0-63	31				
	16	LANG	0-63	31				
	17	VBOW	0-63	31				
	18	LBOW	0-63	31				

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Category Name	No.	Item Name	Range	Initial Data					
2170D_3									
	0	HBLK	0, 1	1					
				1080FULL 1080Vcomp	Others				
	1	LBLK	0-63	50	51				
	2	RBLK	0-63	31	27				
				WideZoom	Zoom	480FULL 1080FULL	480Vcomp 1080Vcomp		
	3	VBLK	0, 1	0	0	1	1		
				WideZoom	Zoom	480FULL	1080FULL	1080Vcomp	480Vcomp
	4	TBLK	0-15	12	7	4	4	10	2
	5	BBLK	0-15	15	7	8	6	14	8
				1080FULL 1080Vcomp	Others				
	6	AFCM	0-3	2	3				
				1080Vcomp 480Vcomp	Others				
	7	JUMP	0, 1	0	0				
				WideZoom	Zoom	480Vcomp 480FULL	1080Vcomp 1080FULL		
	8	VDJP	0, 1	1	1	0	1		
				1080Vcomp 1080FULL	Others				
	9	VDST	0, 1	0	0				
				WideZoom	Zoom	480FULL 480Vcomp	1080FULL 1080Vcomp		
	10	AKBT	0-31	15	15	22	16		

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Category Name	No.	Item Name	Range	Initial Data	
2170D_4					
				1080Vcomp 480Vcomp	Others
	0	QPAM	0-63	30	30
	1	QPAV	0-63	47	47
	2	QPAP	0-15	6	6
	3	QPDC	0-63	33	33
	4	QPDV	0-63	63	63
	5	QPDP	0-15	6	6
	6	CPY1	0, 1	0	
	7	DF	0-63	39	
	8	DQP	0-63	37	
	9	DHMT	0, 1	0	
2170D_5	0	VFRQ	0-3	1	
	1	VON	0, 1	1	
	2	EWDC	0, 1	0	
	3	MS15	0, 1	0	
	4	HFRQ	0-255	80	
	5	HFRX	0-63	25	
	6	VMPS	0, 1	0	
	7	INTR	0, 1	0	
	8	VLNL	0-3	0	
	9	VLNH	0-255	0	
	10	AGCS	0, 1	0	

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Category Name	No.	Item Name	Range	Initial Data		
D_CONV						
				1080Vcomp 480Vcomp	Others	
	0	YBWU	0-63	31	31	
	1	YBWL	0-63	31	31	
	2	RSAP	0-63	31	31	
	3	RUBW	0-63	31	31	
	4	RUMB	0-63	31	31	
	5	RLBW	0-63	31	31	
	6	RLMB	0-63	31	31	
	7	LSAP	0-63	31	31	
	8	LUBW	0-63	31	31	
	9	LUMB	0-63	31	31	
	10	LLBW	0-63	31	31	
	11	LLMB	0-63	31	31	
	12	CADJ	0-63	29		
	13	CPY2	0, 1	0		
CXA2151	0	MTRX	0-3			
				PT	Others	
	1	GAIN	0-3	7	7	
				V5/V6	DVI	Others
	2	FIXS	0-3	0	0	0
				PT	Others	
	3	CBGN	0-15	7	7	
	4	CRGN	0-15	8	8	
	5	YGN	0-15	8	8	
	6	VTC	0-3	0		
	7	HTC	0, 1			
	8	HWID	0-3	1		
	9	HSEP	0, 1	1		
	10	HMSK	0, 1			
				V5/V6	DVI	Others
	11	FRGB	0, 1	0	0	0

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Category Name	No.	Item Name	Range	Initial Data					
MID1									
	0	DHPH	0-255	109					
	1	DVPH	0-63	20					
	2	DHAR	0-255	240					
	3	DVAR	0-255	135					
	4	DHPW	0-63	55					
	5	DVPW	0-7	5					
				Single		Twin	Freeze	Favorite	Index
				480i	Others				
	6	DYCD	0-63	3	0	2	2	2	2
				table-0	table-1	table-2	table-3		
	7	DYSD	0-7	7	4	2	1		
				Single				Favorite	Index
				VGA		Others		VGA	VGA
				Normal	Others	Normal	Others		
	8	MDHP	0-255	174	72	156	0	40	41
				Single			Favorite	Index	
				480i/480p	VGA	Others	VGA	VGA	
	9	MDVP	0-255	30	66	0	34	86	
				Single				Favorite	Index
				VGA		Others		VGA	VGA
				Normal	Others	Normal	Others		
	10	MDHS	0-255		204		240	155	119
				Single			Favorite	Index	
				480i/480p	VGA	Others	VGA	VGA	
	11	MDVS	0-255	120	102	135	103	77	
				Twin/Freeze	Favorite	Index			
	12	MLHP	0-255	36	31	31			
	13	MLVP	0-255	8	30	30			

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Category Name	No.	Item Name	Range	Initial Data			
MID1							
				Favorite			
	14	SDHP	0-255	167			
	15	SDVP	0-255	5			
	16	SDHS	0-255	115			
	17	SDVS	0-255	79			
	18	PDHP	0-255				
	19	PDVP	0-255				
	20	PDHS	0-255				
	21	PDVS	0-255				
				1080i Single	Others		
	22	DPSW	0, 1	0	0		
	23	MDLO	0-63	12			
				Single			Others
				Normal	Others	MS	
	24	BCOL	0-15	1	1	0	1
	25	DYSS	0-3	1			
				Index			
	26	OSDH	0-63	32			
	27	OSDV	0-63	16			

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Category Name	No.	Item Name	Range	Initial Data					
MID2									
					480i		YC		
					Normal	Others	Normal	Others	
	0	DRHP	0-255	Single	153	120	154	117	
	1	DRHS	0-255		162	180	162	180	
	2	DRVP	0-63		37	37	37	37	
	3	DRVS	0-255		120	120	120	120	
					480i	YC			
	0	DRHP	0-255		146	148			
	1	DRHS	0-255	Twin-Left	164	164			
	2	DRVP	0-63		57	57			
	3	DRVS	0-255		110	110			
					YC				
	0	DRHP	0-255		153				
	1	DRHS	0-255	Twin-Right	164				
	2	DRVP	0-63		57				
	3	DRVS	0-255		110				
					480i	YC			
	0	DRHP	0-255		153	153			
	1	DRHS	0-255	Freeze	162	162			
	2	DRVP	0-63		57	57			
	3	DRVS	0-255		110	110			
					480i		YC		
					Full	Vcomp	Full	Vcomp	
	0	DRHP	0-255	Favorite-Main	140	140	140	140	
	1	DRHS	0-255		165	165	165	165	
	2	DRVP	0-63		37	57	37	57	
	3	DRVS	0-255		120	110	120	110	
					YC				
	0	DRHP	0-255		153				
	1	DRHS	0-255	Favorite-Sub	171				
	2	DRVP	0-63		28				
	3	DRVS	0-255		118				

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Category Name	No.	Item Name	Range	Initial Data								
MID2												
					480i		YC					
					Full	Vcomp	Full	Vcomp				
	0	DRHP	0-255	Index-Main	140	140	140	140				
	1	DRHS	0-255		165	165	165	155				
	2	DRVP	0-63		37	57	37	57				
	3	DRVS	0-255		120	110	120	110				
					YC							
	0	DRHP	0-255	Index-Sub	158							
	1	DRHS	0-255		162							
	2	DRVP	0-63		57							
	3	DRVS	0-255		110							
MID3												
					1080i	720p	480p		480i		VGA	
							Normal	Others	Normal	Others	Normal	Others
	0	VDHP	0-255	Single	107	137	200	152	76	56	170	170
	1	VDHS	0-255		240	161	216	240	162	180	229	229
	2	VDVE	0-63		19	24	37	37	17	17	34	34
	3	VDVS	0-255		135	180	120	120	60	60	120	120
					1080i	720p	480p	480i	VGA			
	0	VDHP	0-255	Twin-Left	141	163	192	71	213			
	1	VDHS	0-255		221	147	219	164	209			
	2	VDVE	0-63		43	54	57	27	45			
	3	VDVS	0-255		123	165	110	55	110			
					YC							
	0	VDHP	0-255	Twin-Right	73							
	1	VDHS	0-255		164							
	2	VDVE	0-63		27							
	3	VDVS	0-255		55							
					1080i	720p	480p	480i	VGA			
	0	VDHP	0-255	Freeze	151	169	200	74	212			
	1	VDHS	0-255		218	145	216	162	208			
	2	VDVE	0-63		43	54	57	27	45			
	3	VDVS	0-255		123	165	110	55	110			

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Category Name	No.	Item Name	Range	Initial Data

MID3

Favorite-Main

				1080i		720p	480p		480i		VGA	
				FULL	Vcomp	-	FULL	Vcomp	FULL	Vcomp	FULL	Vcomp
0	VDHP	0-255		136	136	158	184	184	68	68	169	169
1	VDHS	0-255		222	222	148	220	220	165	165	229	229
2	VDVE	0-63		43	43	55	37	57	17	27	34	34
3	VDVS	0-255		123	123	165	120	110	60	55	120	120

Favorite-Sub

			YC
0	VDHP	0-255	75
1	VDHS	0-255	171
2	VDVE	0-63	13
3	VDVS	0-255	59

Index-Main

			1080i		720p	480p		480i		VGA	
			FULL	Vcomp	-	FULL	Vcomp	FULL	Vcomp	FULL	Vcomp
0	VDHP	0-255	136	136	158	184	184	68	68	169	169
1	VDHS	0-255	222	222	148	220	220	165	165	229	229
2	VDVE	0-63	43	43	55	37	57	17	27	34	34
3	VDVS	0-255	123	123	165	120	110	60	55	120	120

Index-Sub

			YC
0	VDHP	0-255	76
1	VDHS	0-255	162
2	VDVE	0-63	27
3	VDVS	0-255	55

			YC	480i	1080i	720p	480p	VGA
4	VDVO	0-3	0	0	0	0	0	0
5	VCPO	0-255	42	42	72	88	122	122
6	VCWD	0-7	1	1	3	3	3	3
7	VYCD	0-63	0	0	0	0	0	0
8	VSTP	0-255	62	62	136	183	126	129
9	VSTT	0-15	0	0	0	0	0	0
10	VHSC	0-255	130	130	130	130	130	130
11	VFRV	0, 1	0	0	0	0	0	0

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Category Name	No.	Item Name	Range	Initial Data															
MID5																			
	0	POP	0-63	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1	MHLY	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	MHLC	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	0	1	1	1	2	3	3	2	0	0	2	1	0	0	1	1
	6	MHYL	0-3	0	1	1	1	1	2	2	2	0	1	2	1	0	0	1	2
	7	MHYE	0-7	0	2	2	5	6	7	7	7	0	2	4	7	0	0	7	7
	8	MHYO	0, 1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	MVYR	0-3	0	0	0	0	1	2	2	2	0	1	1	1	0	0	1	2
	14	MVYL	0-3	0	0	0	0	1	1	1	1	0	1	1	1	0	0	1	2
	15	MVYE	0-7	0	0	0	0	1	1	1	1	0	3	3	3	0	0	4	3
	16	MVCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	POP	0-63	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	2
	7	MHYE	0-7	2	2	2	7	0	4	7	7	2	4	7	7	0	0	7	7
	8	MHYO	0, 1	1	1	1	1	0	0	0	1	0	0	0	0	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	2
	14	MVYL	0-3	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	2
	15	MVYE	0-7	0	1	1	4	0	0	4	4	0	0	4	4	0	0	4	3
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0

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Category Name	No.	Item Name	Range	Initial Data															
MID5																			
	0	POP	0-63	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	0	0	0
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0
	7	MHYE	0-7	2	2	2	7	0	4	7	7	2	4	7	7	2	0	0	0
	8	MHYO	0, 1	1	1	1	1	0	0	0	1	0	0	0	0	1	0	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	14	MVYL	0-3	0	1	1	1	0	0	1	1	0	0	1	1	1	0	0	0
	15	MVYE	0-7	0	1	1	4	0	0	4	4	0	0	4	4	1	0	0	0
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0

0	POP	0-63	48	49	50	51	52	53	54	55	56
1	MHLY	0-3	0	0	0	0	0	0	0	0	0
2	MHLC	0-3	0	0	0	0	0	0	0	0	0
3	MVLY	0-3	0	0	0	0	0	0	0	0	0
4	MVLC	0-3	0	0	0	0	0	0	0	0	0
5	MHYR	0-3	0	0	0	0	0	0	0	0	0
6	MHYL	0-3	0	0	1	1	1	0	0	0	0
7	MHYE	0-7	0	0	4	2	5	0	0	0	0
8	MHYO	0, 1	0	0	0	0	0	0	0	0	0
9	MHCR	0-3	0	0	0	1	1	0	0	0	0
10	MHCL	0-3	0	0	0	1	1	0	0	0	0
11	MHCE	0-7	0	0	0	2	2	0	0	0	0
12	MHCO	0-1	0	0	0	1	1	0	0	0	0
13	MVYR	0-3	0	0	0	0	0	0	0	0	0
14	MVYL	0-3	0	0	0	1	1	0	0	0	0
15	MVYE	0-7	0	0	0	1	2	0	0	0	0
16	MVCR	0-3	0	0	0	1	1	0	0	0	0
17	MVCL	0-3	0	0	0	1	1	0	0	0	0
18	MVCE	0-7	0	0	0	2	2	0	0	0	0

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Category Name	No.	Item Name	Range	Initial Data
MID5				
				MS
	19	SHLY	0-7	0
	20	SHLC	0-7	0
	21	SVLY	0-7	0
	22	SVLC	0-7	0
	23	SHYR	0-3	0
	24	SHYL	0-3	0
	25	SHYE	0-7	0
	26	SHYO	0, 1	0
	27	SHCR	0-3	0
	28	SHCL	0-3	0
	29	SHCE	0-7	0
	30	SHCO	0, 1	0
	31	SVYR	0-3	0
	32	SVYL	0-3	0
	33	SVYE	0-7	0
	34	SVCR	0-3	0
	35	SVCL	0-3	0
	36	SVCE	0-7	0

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Category Name	No.	Item Name	Range	Initial Data		
CXA3506R						
				480i	Others	
	0	MCON	0, 1	64	64	
	1	SCOR	0-255	128	128	
	2	SCOG	0-255	128	128	
	3	SCOB	0-255	128	128	
	4	RGB	0-255	0	0	
AUDIO						
	0	ASYS	0, 1	0		
	1	TRCV	0-3	1		
	2	BACV	0-3	0		
	3	MDCV	0-3	2		
	4	SVHI	0-7	4		
	5	SVLO	0-7	5		
	6	MDFQ	0-15	10		
	7	LOFQ	0-7	1		
	8	SBAS	0-15	9		
	9	BSFQ	0-15	0		
	10	STRE	0-15	10		
	11	TRFQ	0-15	7		
	12	PSEF	0-15	5		
	13	AGCL	0-15	3		
				TruSurround	Simulated	SteadySound
	14	BBE	0, 1	1	1	1
	15	BBEP	0-7	6	6	6
	16	BBEL	0-7	3	3	3
	17	BB2P	0-7	6	6	6
	18	BB2L	0-7	3	3	3
	19	TRS1	0-7	4		
	20	TRS2	0-7	2		

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Category Name	No.	Item Name	Range	Initial Data							
SNNR	0	MODE	0-3	0							
	1	SNNR	0-7	0							
				A	B	C	D	E	F	G	
	2	WSLT	0-255	15	31	45	63	85	110	127	
				0	1	2	3	4	5	6	7
	3	CPFG	0-15	0	0	1	1	2	2	2	3
	4	CPFT	0-3	0	0	0	0	0	0	0	0
	5	CCOR	0-3	0	0	1	1	1	1	1	1
	6	CHCG	0, 1	0	1	1	1	1	1	1	1
	7	CAPG	0-7	0	0	0	0	0	0	0	0
	8	3SHP	0-15	0	0	1	1	2	2	2	3
	9	NYNR	0-15	0	1	2	2	3	3	4	4
	10	NCNR	0-15	0	1	2	2	3	3	4	4
	11	NYMG	0-3	0	0	0	0	0	0	0	0
	12	NCMG	0-3	0	0	0	0	0	0	0	0
	13	NYLT	0-15	0	1	1	2	3	4	6	8
	14	NYNC	0-15	0	0	2	2	3	3	4	4
	15	NYCO	0, 1	0	0	1	1	1	1	1	1
	16	7SHP	0-63	0	0	1	1	3	3	3	4
	17	7YF1	0-3	0	0	1	1	2	2	2	3
	18	7LTI	0-3	0	0	0	0	0	0	0	0
	19	7CTI	0-3	0	0	0	0	0	0	0	0
	20	7VML	0-15	0	0	0	0	0	0	0	0
	21	7VMC	0-3	0	0	1	1	2	2	2	3
	22	MIDD	0-63	0	0	1	1	2	2	2	3

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Category Name	No.	Item Name	Range	Initial Data
CCD				
	0	HPRM	0-255	60
	1	HPRS	0-255	60
	2	YSYM	0, 1	0
	3	CCDI	0-7	3
	4	CRIP	0-7	4
	5	PHLD	0, 1	0
	6	CHMK	0-63	54
	7	LANG	0-15	0
	8	DATA	0, 1	0
	9	VCHP	0, 1	0
	10	CLMP	0, 1	0
	11	SYSV	0-7	4
	12	ID1	0, 1	1
	13	ID1M	0-7	1
	14	FPOL	0, 1	0
	15	BWHT	0, 1	0
	16	MESH	0, 1	0
	17	BNBB	0-3	1
	18	BNBG	0-3	1
	19	BNBR	0-3	0
	20	CMP1	0-7	2
	21	CMP2	0-7	5
	22	CMP3	0-7	3
	23	CWHT	0-7	3
	24	VSDW	0, 1	1
	25	BFRQ	0, 1	0
	26	BPOS	0, 1	0
	27	BFRM	0, 1	1
	28	BTIM	0, 1	0

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Category Name	No.	Item Name	Range	Initial Data
3DNR				
	0	WHCT	0-63	44
	1	NIQM	0, 1	1
	2	CLPW	0-63	30
	3	CLPP	0-255	80
	4	YHBW	0-255	138
	5	YBKL	0-15	0
	6	YBKO	0, 1	0
	7	MUTE	0, 1	0
	8	YHBS	0-127	40
	9	CHBW	0-255	138
	10	CBKO	0-127	40
	11	CHBO	0, 1	0
	12	VHBL	0-15	0
	13	UHBL	0-15	0
	14	UVDL	0-7	0
	15	YDL	0-7	0
	16	PVDI	0, 1	0
	17	PHDI	0, 1	0
	18	HDW	0-63	16
	19	PVDO	0, 1	0
	20	PHDO	0, 1	0
	21	HST	0-255	54
	22	VDL	0-15	0
	23	VDW	0-15	44
	24	NDET	0-15	1
	25	NVP	0-15	30
	26	NDTS	0-3	80
	27	HROF	0, 1	138
	28	NDGW	0-15	0
	29	UOFS	0-7	1
	30	POT	0-3	0
	31	UVF	0, 1	40
	32	APC	0, 1	138
	33	DAP	0, 1	40

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Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	34	YLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	35	YST	0, 1	0		
	36	YNT	0, 1	1		
	37	YPL	0, 1	1		
	38	YMV	0, 1	0		
					Others	480i
	39	YCR	0-31	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	40	VOS	0-7	1		
					Others	480i
	41	YMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	42	YEG	0, 1	1		
					Others	480i
	43	YEL	0-15	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	44	YLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6

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Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	45	CLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	46	CNT	0, 1	1		
	47	CPL	0, 1	1		
					Others	480i
	48	CMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
					Others	480i
	49	CCR	0-31	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	50	CLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
	51	NVSL	0-255	20		
	52	NVSH	0, 1	0		
	53	NHS	0-127	16		
	54	NVEL	0-255	244		
	55	NVEH	0, 1	0		
	56	NHE	0-127	120		
					Others	480i
	57	YNG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3

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Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	58	COR	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	59	LPF	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	60	YLT	0-15	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	61	YNC	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
					Others	480i
	62	YCO	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
	63	ADTH	0, 1	0		

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Category Name	No.	Item Name	Range	Initial Data				
DRCV								
	0	MFVR	0, 1	0				
	1	ISEL	0, 1	1				
					RF	CV/YC	V5/V6 480i	DVI
	2	ORES	0-255	Vivid	128	128	128	128
				Standard	128	128	128	128
				Movie	128	128	133	128
				Pro	128	128	133	128
					RF	CV/YC	V5/V6 480i	DVI
	3	ONCT	0-255	Vivid	128	128	128	128
				Standard	128	128	128	128
				Movie	128	128	128	128
				Pro	128	128	133	133
				CUSTOM1	CUSTOM2	CUSTOM3		
	4	AINI	0-127	0	49	79		
	5	BINI	0-127	24	54	89		
	6	FMAT	0, 1	0				
				Other	RF			
	7	FMTH	0-3	1	1			
	8	FSEL	0, 1	1				
	9	CDLY	0-3	2				
	10	LMIT	0, 1	0				
				Vivid	Standard	Movie	Pro	
	11	LMLV	0-3	2	2	2	2	
	12	LMSL	0, 1	1				
	13	VDLY	0-3	1				
	14	VDPR	0-3	3				
	15	WPLL	0-3	2				
	16	CRCT	0, 1	0				

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Category Name	No.	Item Name	Range	Initial Data						
DRCV										
				SNNR						
				1	2	3	4	5	6	7
	17	NRA	0-255	0	0	0	0	0	0	0
	18	NRB	0-255	128	128	128	128	128	128	128
OP	0	DLY1	0-31	4						
	1	DLY2	0-31	12						
	2	DLY3	0-15	7						
	3	OSDH	0-255	20						
	4	HDPT	0, 1	1						
	5	MSBG	0-255	0						
	6	AACK	0-3	2						
	7	RAMW	0-3	0						

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4-5. ID MAP TABLES

☛ **KV-30HS510**

				30HS510 US	30HS510 CND
ID	0	ID0	0-255	89	89
	1	ID1	0-255	255	255
	2	ID2	0-255	239	239
	3	ID3	0-255	106	90
	4	ID4	0-255	203	203
	5	ID5	0-255	243	243
	6	ID6	0-255	254	254
	7	ID7	0-255	17	17

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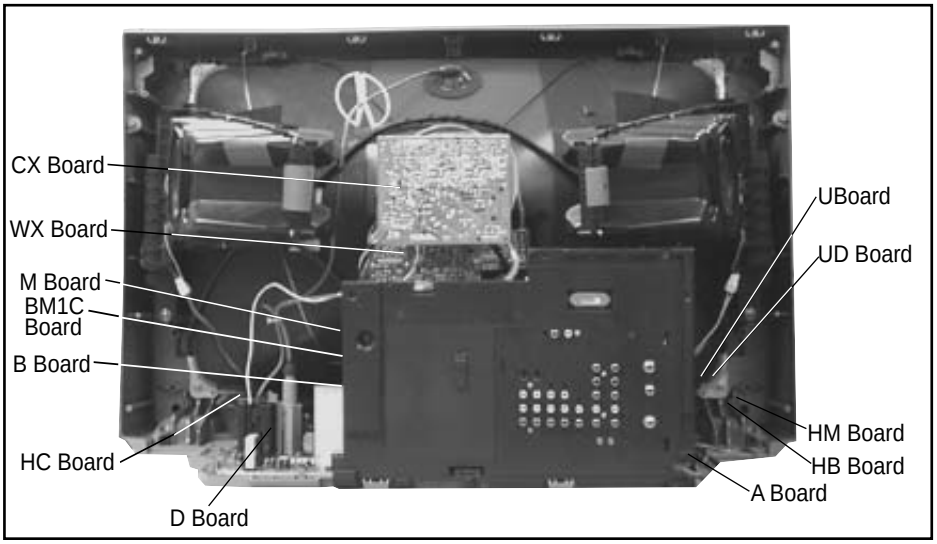
SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.

The symbol ▬ indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole ▬ indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. kΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
Rating electrical power : $^1/_4$W

$^1/_4$W in resistance, $^1/_{10}$W and $^1/_{16}$W in chip resistance.

: nonflammable resistor

: fusible resistor

: internal component

: panel designation and adjustment for repair

: earth ground

: earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10MΩ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

: B+line.

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by ◪, make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved.

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced (◪)	Adjustment (⋈)
D BOARD: IC6503, IC8001, IC8005, IC8004, IC8104, D8022, R8016, R8079, R8046, R8052, R8019, R8014, R8015, R8017, R8078, R8165, R8072, R8082, R8091, R8095	**HV ADJUST** RV8002

REFERENCE INFORMATION

RESISTOR

: RN	METAL FILM
: RC	SOLID
: FPRD	NONFLAMMABLE CARBON
: FUSE	NONFLAMMABLE FUSIBLE
: RW	NONFLAMMABLE WIREWOUND
: RS	NONFLAMMABLE METAL OXIDE
: RB	NONFLAMMABLE CEMENT
: ※	ADJUSTMENT RESISTOR

COIL

: LF-8L	MICRO INDUCTOR

CAPACITOR

: TA	TANTALUM
: PS	STYROL
: PP	POLYPROPYLENE
: PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE
: ALR	HIGH RIPPLE

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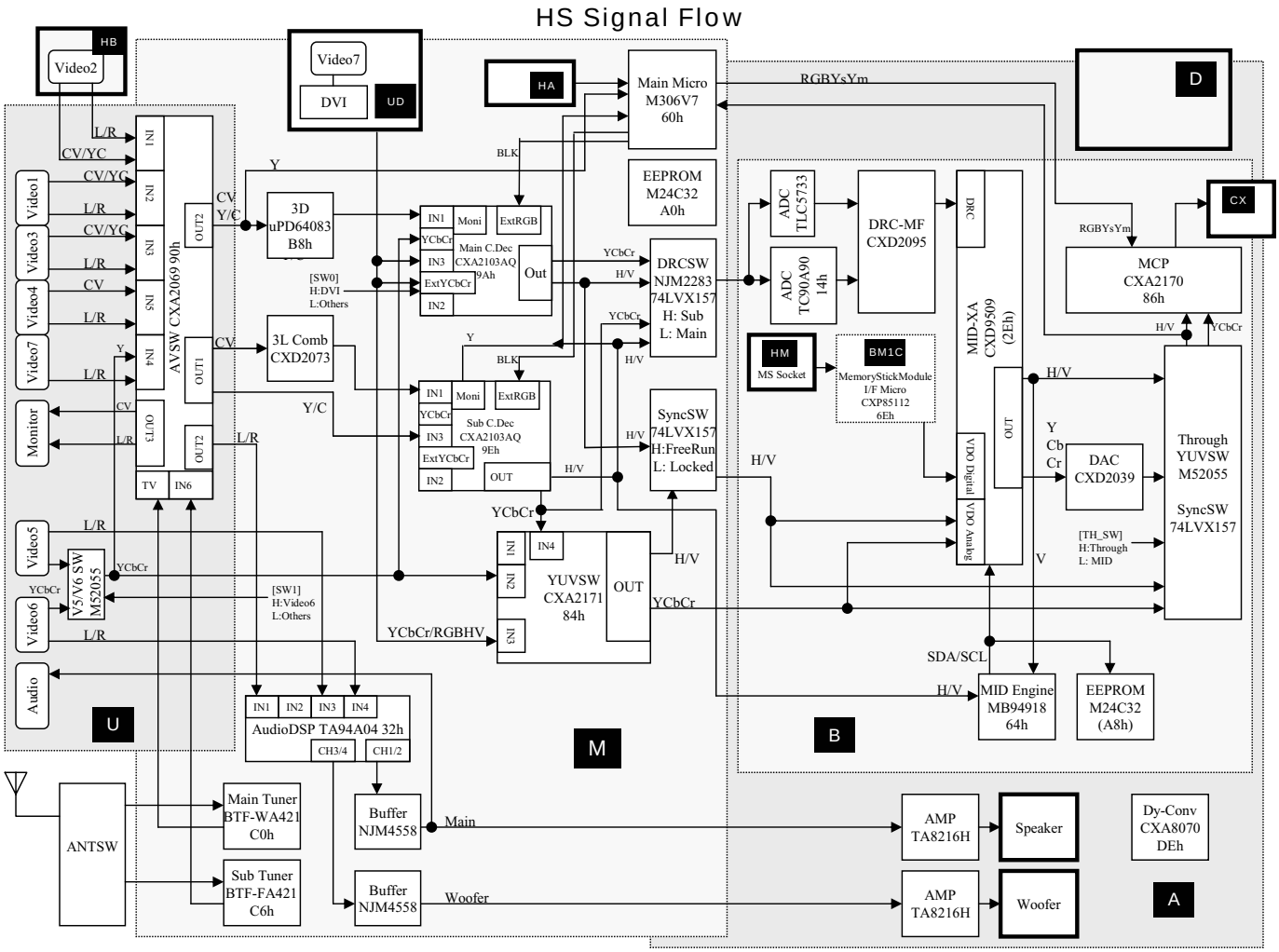
5-3. BLOCK DIAGRAMS
BLOCK DIAGRAMS (1 OF 3)



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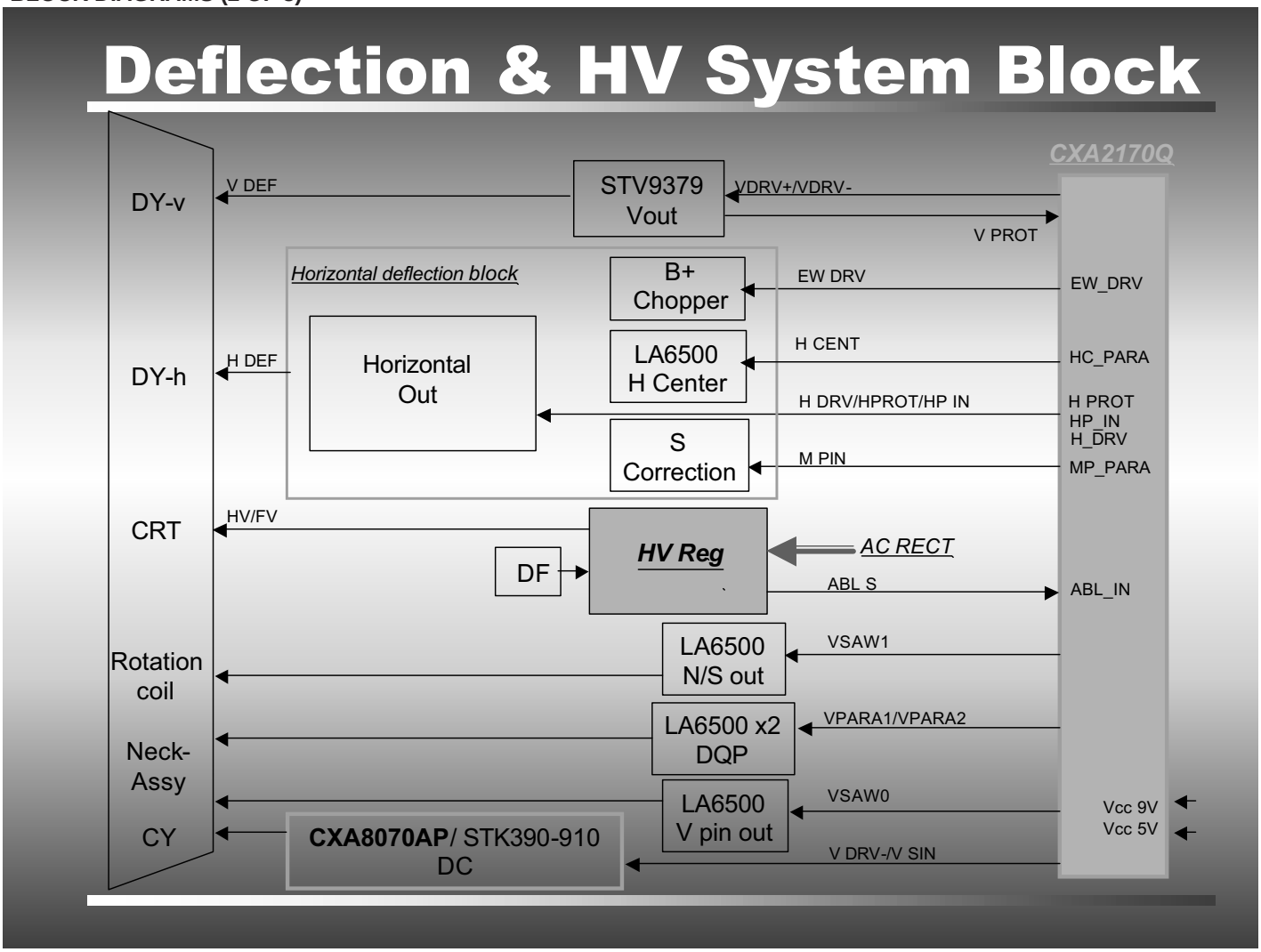
BLOCK DIAGRAMS (2 OF 3)



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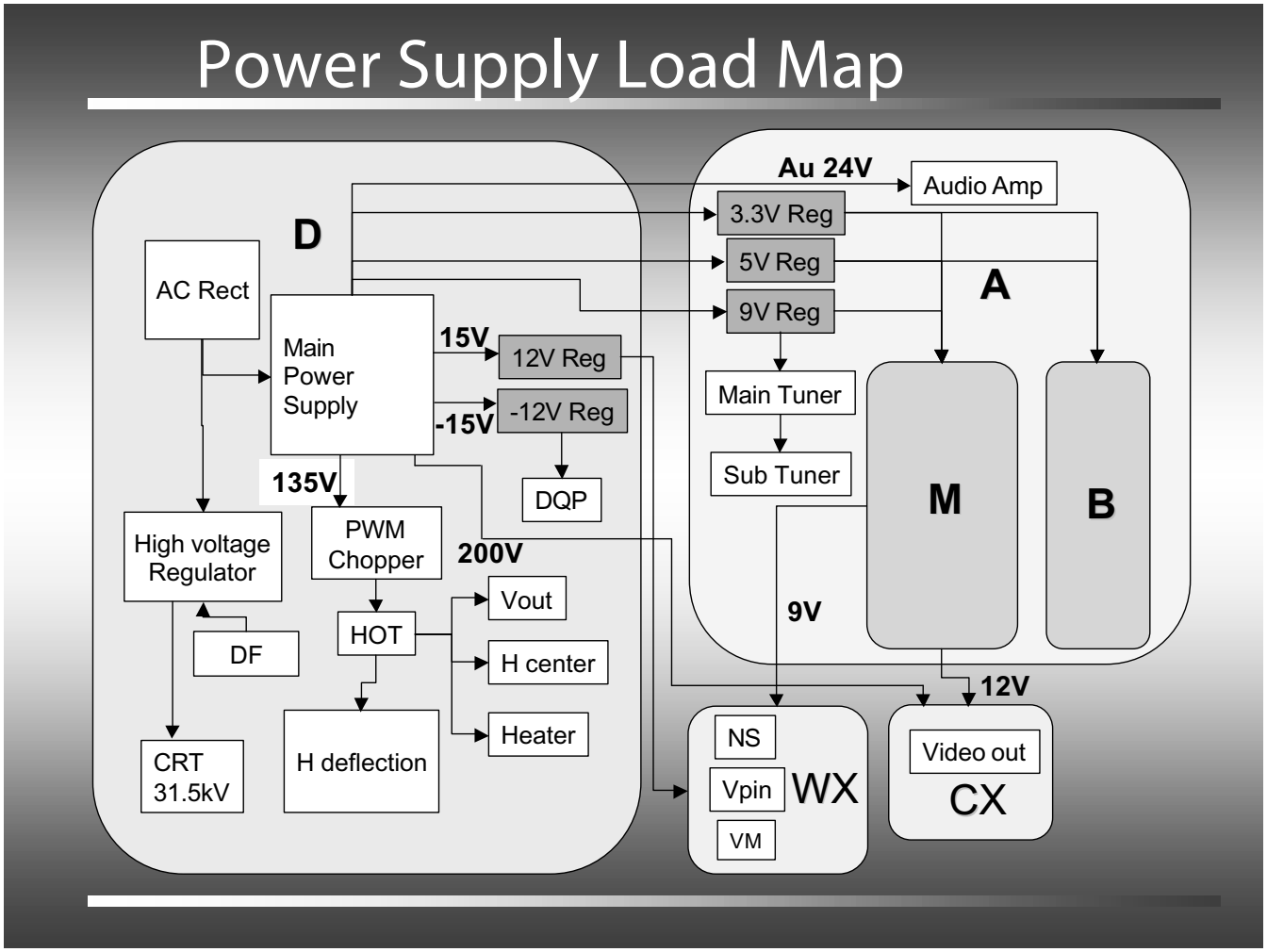
BLOCK DIAGRAMS (3 OF 3)



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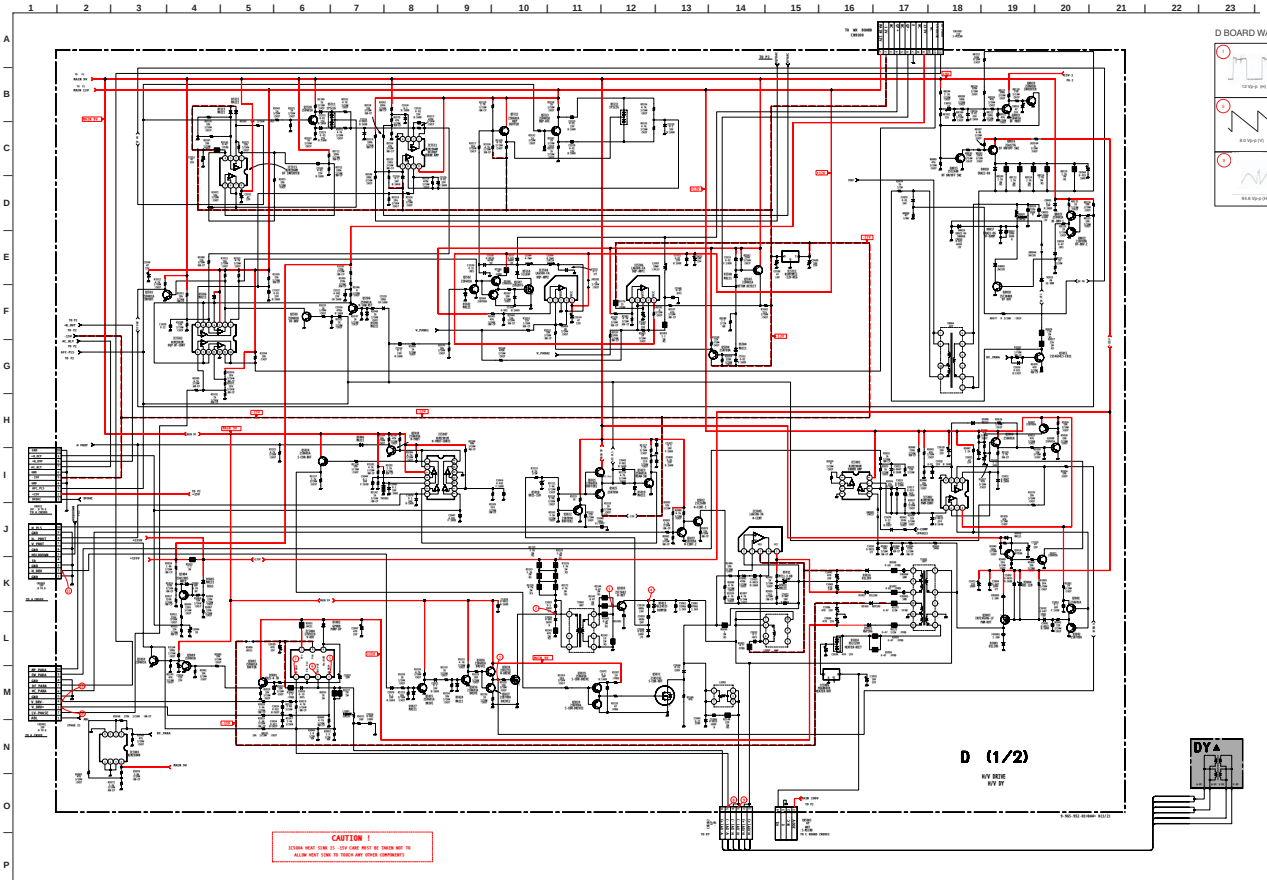
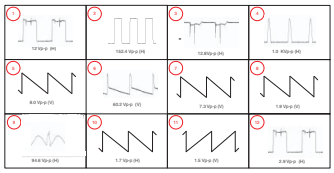
5-4. SCHEMATICS AND SUPPORTING INFORMATION

D BOARD SCHEMATIC DIAGRAM (1 OF 2)



D BOARD WAVEFORMS



D BOARD IC VOLTAGE LIST

IC5001				IC5007					
PIN	VOLT	PIN	VOLT	2	1.0	6	0.0	3	2.2
1	10.9	1	2.4	3	-15.8	7	4.6	4	2.5
2	10.9	2	0.7	4	1.7	8	17.9	5	GND
3	N/C	3	9.0	5	12.0	9	0.0	6	0.0
4	GND	4	1.6	IC5511		10	10.5	7	4.6
5	3.9	5	GND	PIN	VOLT	11	GND	8	17.9
6	3.9	6	3.9	1	4.0	12	4.8	9	0.0
7	4.7	7	2.7	2	5.8	13	N/C	10	10.5
8	12.0	8	0.4	3	5.8	14	151.8	11	GND
IC5002		9	3.0	4	GND	15	142.2	12	4.8
PIN	VOLT	10	N/C	5	2.6	16	146.3	13	N/C
1	5.6	11	N/C	6	2.6	17	N/C	14	151.8
2	2.6	12	GND	7	7.6	18	306.1	15	142.2
3	5.9	13	N/C	8	12.0	IC5502		16	146.3
4	GND	14	0.7	IC5512		PIN	VOLT	17	N/C
5	5.1	IC5502		PIN	VOLT	I	15.0	18	306.1
6	5.6	PIN	VOLT	O	-12.0	O	12.0	IC8004	
7	4.8	1	6.9	G	GND	G	GND	PIN	VOLT
8	12.0	2	0.5	IC5515		4	N/C	1	6.9
IC5004		3	12.0	PIN	VOLT	IC5503		2	6.9
PIN	VOLT	4	2.7	1	0.0	PIN	VOLT	3	6.9
1	1.2	5	3.7	2	0.0	1	133.8	4	GND
2	14.1	6	2.6	3	0.0	2	N/C	5	6.9
3	-13.1	7	4.4	4	-11.9	3	2.5	6	6.9
4	-15.3	8	N/C	5	6.0	4	11.0	7	6.9
5	0.0	9	N/C	6	6.0	5	GND	8	15.0
6	14.6	10	N/C	7	6.0	IC5505		IC5905	
7	1.2	11	N/C	8	9.0	PIN	VOLT	PIN	VOLT
IC5005		12	GND	IC5508		1	134.4	1	2.5
PIN	VOLT	13	N/C	PIN	VOLT	2	15.4	2	GND
1	99.4	14	N/C	I	15.0	3	GND	3	9.9
2	99.1	IC5504		O	12.0	IC8001		IC8006	
3	94.6	PIN	VOLT	G	GND	PIN	VOLT	PIN	VOLT
4	98.8	1	1.6	4	N/C	1	0.1	1	0.0
5	105.0	2	1.6	IC5521		2	2.5	2	2.5
IC5006		3	GND	PIN	VOLT	3	2.1	3	2.2
PIN	VOLT	4	5.4	1	2.8	4	GND	4	GND
I	7.7	5	12.0	2	1.8	5	2.3	5	7.5
O	6.3	IC5506		3	2.2	6	2.5	6	4.5
G	GND	PIN	VOLT	4	2.5	7	0.0	7	14.8
VC	N/C	1	1.0	5	GND	8	17.5	8	15.0

IC5002		IC5104	
PIN	VOLT	PIN	VOLT
1	2.6	1	2.5
2	1.8	2	GND
		3	2.5

All voltages are in V.

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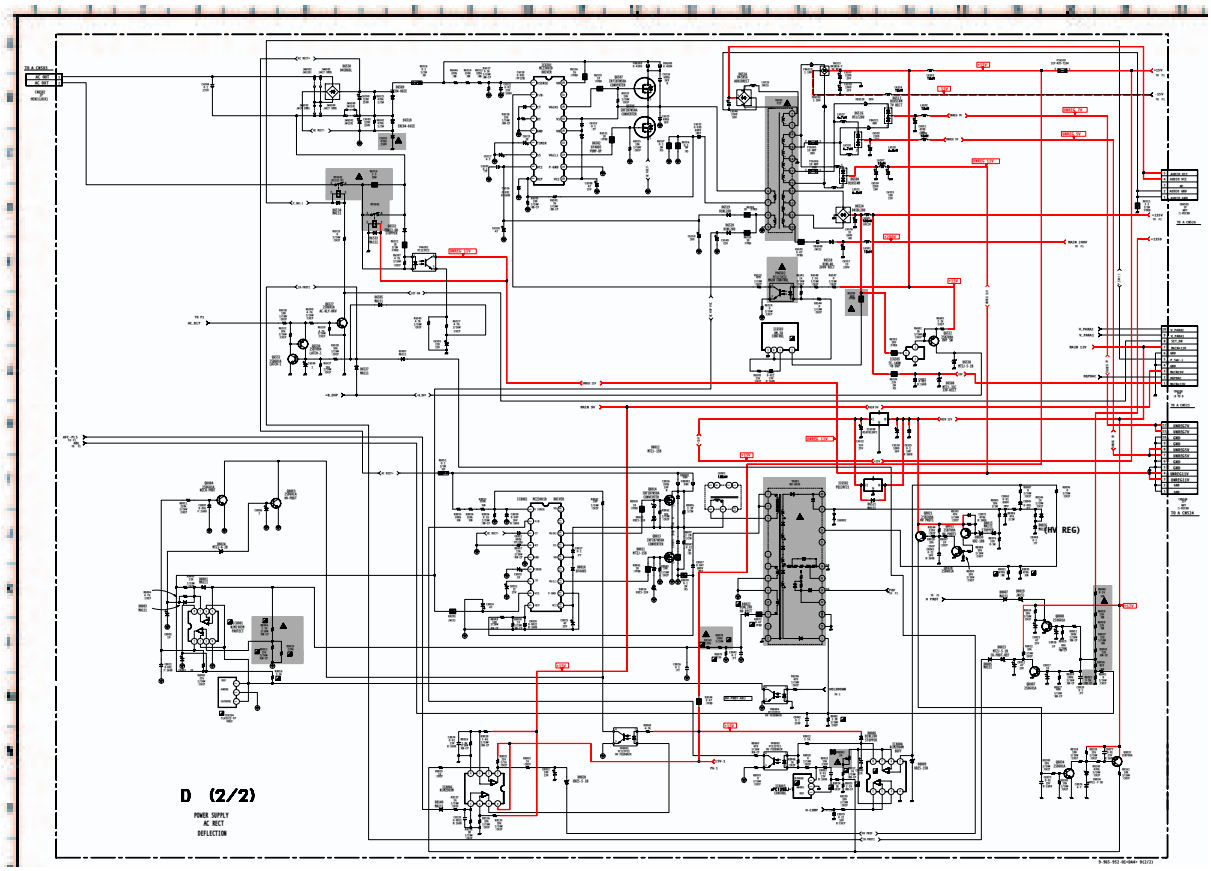
D BOARD SCHEMATIC DIAGRAM (2 OF 2)



D BOARD TRANSISTOR VOLTAGE LIST

	B	C	E		B	C	E		D	G	S
Q5001	4.8	12	4.9	Q5505	0.4	9.0	0.0	Q5003	10.9	128.8	135.0
Q5002	4.8	GND	4.9	Q5506	0.0	2.7	GND	Q5028	63.9	3.8	GND
Q5004	133.3	3.7	132.7	Q5510	0.7	8.3	0.8	Q5031	14.6	2.1	GND
Q5005	0.0	14.1	0.2	Q5512	4.4	12.0	3.8	Q5507	10.5	6.9	GND
Q5006	11.2	12.0	10.7	Q5513	1.3	8.7	4.2	Q5506	140.1	4.8	GND
Q5007	11.4	12.1	12.0	Q5568	6.9	12.0	7.0	Q5507	305.6	145.1	140.1
Q5008	0.7	0.0	GND	Q5569	6.9	0.0	7.0	Q8013	136.0	4.5	GND
Q5009	0.0	0.0	GND	Q6522	15.4	0.0	15.4	Q8014	305.0	131.0	136.0
Q5010	0.1	0.8	GND	Q6527	0.8	0.1	GND				
Q5011	0.0	0.0	GND	Q6530	3.2	0.0	3.2				
Q5012	3.4	97.5	2.9	Q6532	0.0	3.2	GND				
Q5013	2.8	GND	3.4	Q8003	0.1	2.6	GND				
Q5014	8.9	0.0	9.0	Q8004	0.1	2.6	GND				
Q5015	2.1	105.0	1.5	Q8007	0.6	0.1	GND				
Q5018	0.7	0.0	GND	Q8008	0.6	0.1	GND				
Q5019	2.2	9.0	2.1	Q8011	11.9	0.0	12.0				
Q5020	2.2	GND	2.1	Q8015	0.6	0.0	GND				
Q5021	0.9	9.0	1.3	Q8016	132.6	132.4	133.3				
Q5022	0.6	GND	1.2	Q8018	0.0	86.6	GND				
Q5023	0.2	3.9	GND	Q8019	0.6	0.0	GND				
Q5024	2.4	9.0	2.2	Q8020	0.0	0.6	GND				
Q5025	0.9	-15.0	1.3	Q8021	11.7	0.0	12.0				
Q5026	3.8	9.0	3.8	Q8022	3.4	GND	3.5				
Q5027	3.8	0.0	3.8	Q8023	3.4	9.0	3.5				
Q5030	0.0	84.3	GND	Q8028	0.0	11.7	GND				
Q5035	0.0	2.1	GND	Q8034	0.0	12.0	GND				
Q5036	0.2	3.8	GND	Q8035	11.6	2.5	12.0				
Q5501	0.5	3.4	GND								
Q5502	0.0	6.9	GND								
Q5503	0.0	0.5	GND								
Q5504	0.2	-12.0	0.8								

All voltages are in V.

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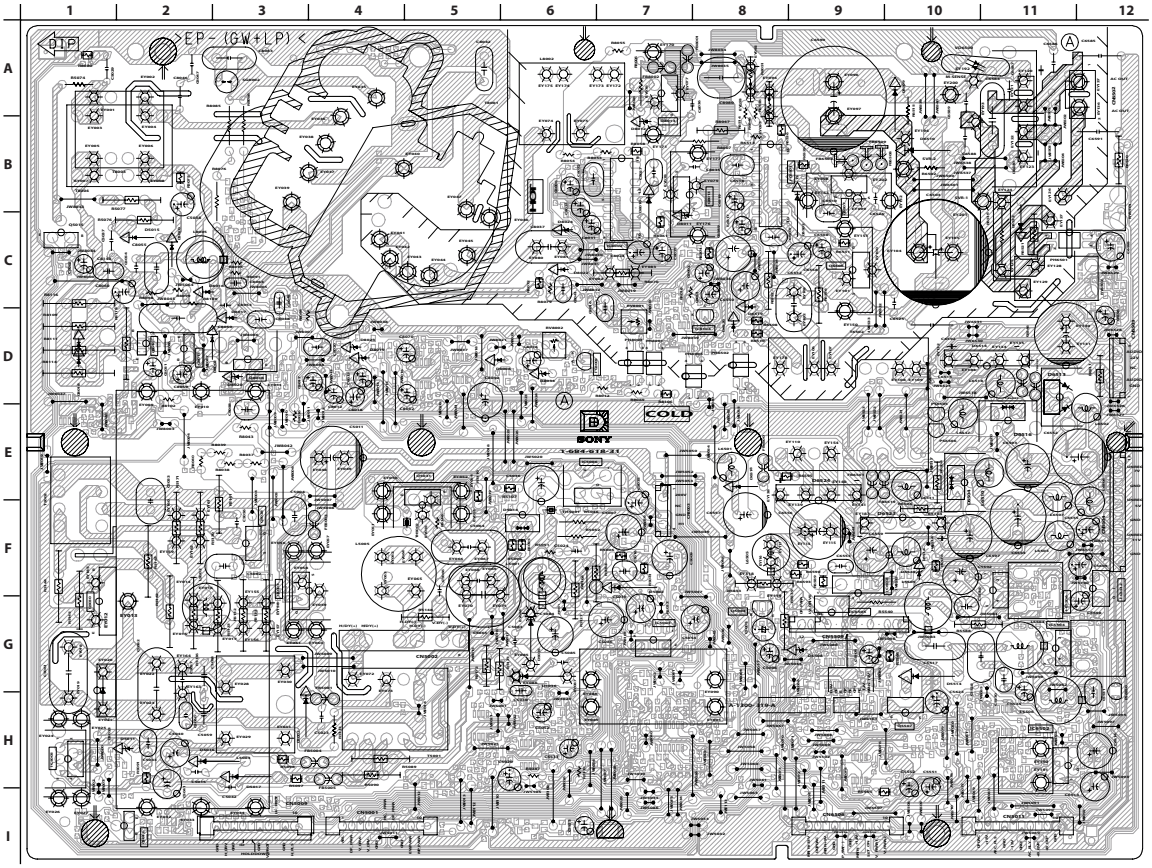
D [H/V DRIVE, H/V DY, POWER SUPPLY, AC RECT DEFLECTION]

COMPONENT SIDE



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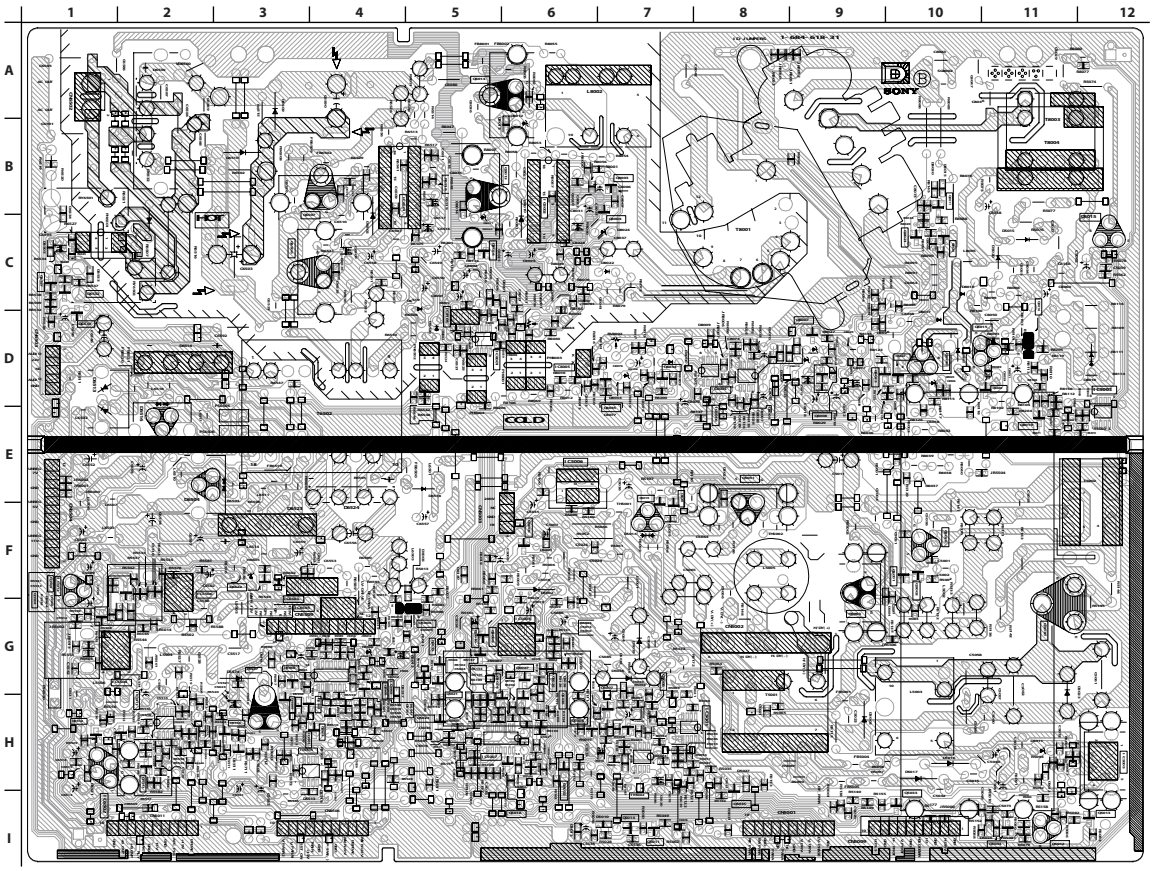
D [H/V DRIVE, H/V DY, POWER SUPPLY, AC RECT DEFLECTION]

CONDUCTOR SIDE



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D BOARD LOCATOR LIST

DIODE	
D5001	F-6
D5002	F-6
D5003	G-9
D5004	F-10
D5005	F-5
D5006	H-6
D5007	D-8
D5008	H-7
D5010	H-7
D5011	H-11
D5014	F-7
D5016	H-10
D5017	H-10
D5018	G-7
D5019	G-5
D5023	G-11
D5027	H-8
D5028	G-6
D5032	H-11
D5035	G-7
D5036	G-7
D5501	H-5
D5502	G-4
D5504	G-11
D5506	G-4
D5508	G-11
D5511	H-3
D5512	G-11
D5513	H-4
D5514	G-3
D5515	H-4
D6502	C-4
D6504	E-2
D6505	C-1
D6508	G-4
D6509	A-3
D6510	B-3
D6513	D-2
D6514	D-2
D6516	D-2
D6518	E-5
D6519	C-5
D6520	C-5
D6521	E-3
D6523	F-4
D6524	A-2
D6530	A-2
D6532	B-2

DIODE	
D6533	C-1
D6534	B-1
D6537	G-5
D6538	F-3
D8001	C-6
D8003	C-5
D8005	D-8
D8006	D-8
D8007	E-8
D8009	C-8
D8010	B-6
D8011	B-5
D8012	B-6
D8013	A-5
D8014	B-5
D8015	B-10
D8016	C-10
D8017	C-10
D8018	D-12
D8022	C-7
D8023	C-9
D8024	B-7
D8026	C-10
D8028	E-8
D8030	B-10
D8034	D-7
D8140	F-5

IC	
IC5001	G-7
IC5002	H-7
IC5003	E-12
IC5004	F-6
IC5005	H-12
IC5006	E-6
IC5007	H-6
IC5502	G-4
IC5504	G-2
IC5506	F-3
IC5511	G-2
IC5512	F-1
IC5515	H-4
IC6500	H-2
IC6501	B-5
IC6502	I-1
IC6503	F-4
IC6505	G-4
IC8001	D-6
IC8002	B-6

IC	
IC8004	D-8
IC8005	D-6
IC8006	D-8
IC8104	C-5

TRANSISTOR	
Q5001	F-10
Q5002	F-10
Q5003	F-9
Q5004	F-5
Q5005	F-6
Q5006	G-7
Q5007	G-7
Q5008	H-7
Q5009	F-6
Q5010	F-5
Q5011	I-7
Q5012	I-11
Q5013	H-12
Q5014	I-7
Q5015	C-12
Q5018	H-6
Q5019	E-7
Q5020	E-8
Q5021	G-5
Q5022	H-6
Q5023	G-5
Q5024	G-6
Q5025	G-5
Q5026	G-6
Q5027	G-6
Q5028	F-10
Q5030	F-11
Q5031	E-8
Q5035	H-8
Q5036	G-6
Q5501	H-4
Q5502	G-4
Q5503	H-4
Q5504	F-1
Q5505	F-1
Q5506	G-5
Q5507	G-3
Q5510	H-3
Q5512	H-2
Q5513	H-12
Q5568	G-4
Q5569	G-3
Q6506	C-4

TRANSISTOR	
Q6507	B-4
Q6522	F-3
Q6527	C-1
Q6530	D-1
Q6532	C-1
Q8003	B-7
Q8004	B-7
Q8007	C-9
Q8008	E-9
Q8011	B-10
Q8013	B-6
Q8014	A-5
Q8015	C-11
Q8016	C-11
Q8018	D-10
Q8019	E-11
Q8020	D-11
Q8021	B-10
Q8022	D-10
Q8023	D-10
Q8028	C-10
Q8034	D-7
Q8035	D-7

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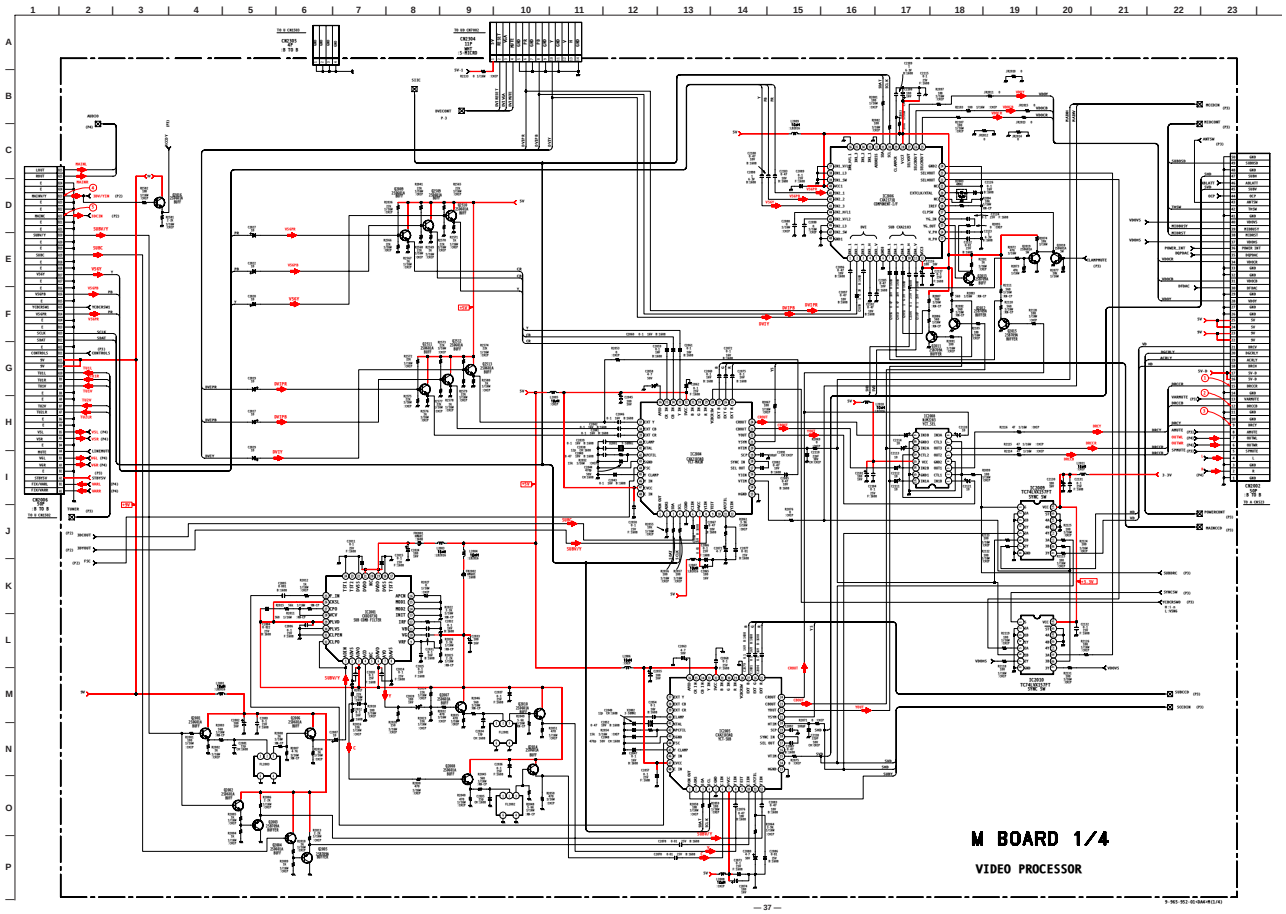
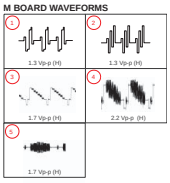
M BOARD SCHEMATIC DIAGRAM (1 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



M BOARD WAVEFORMS



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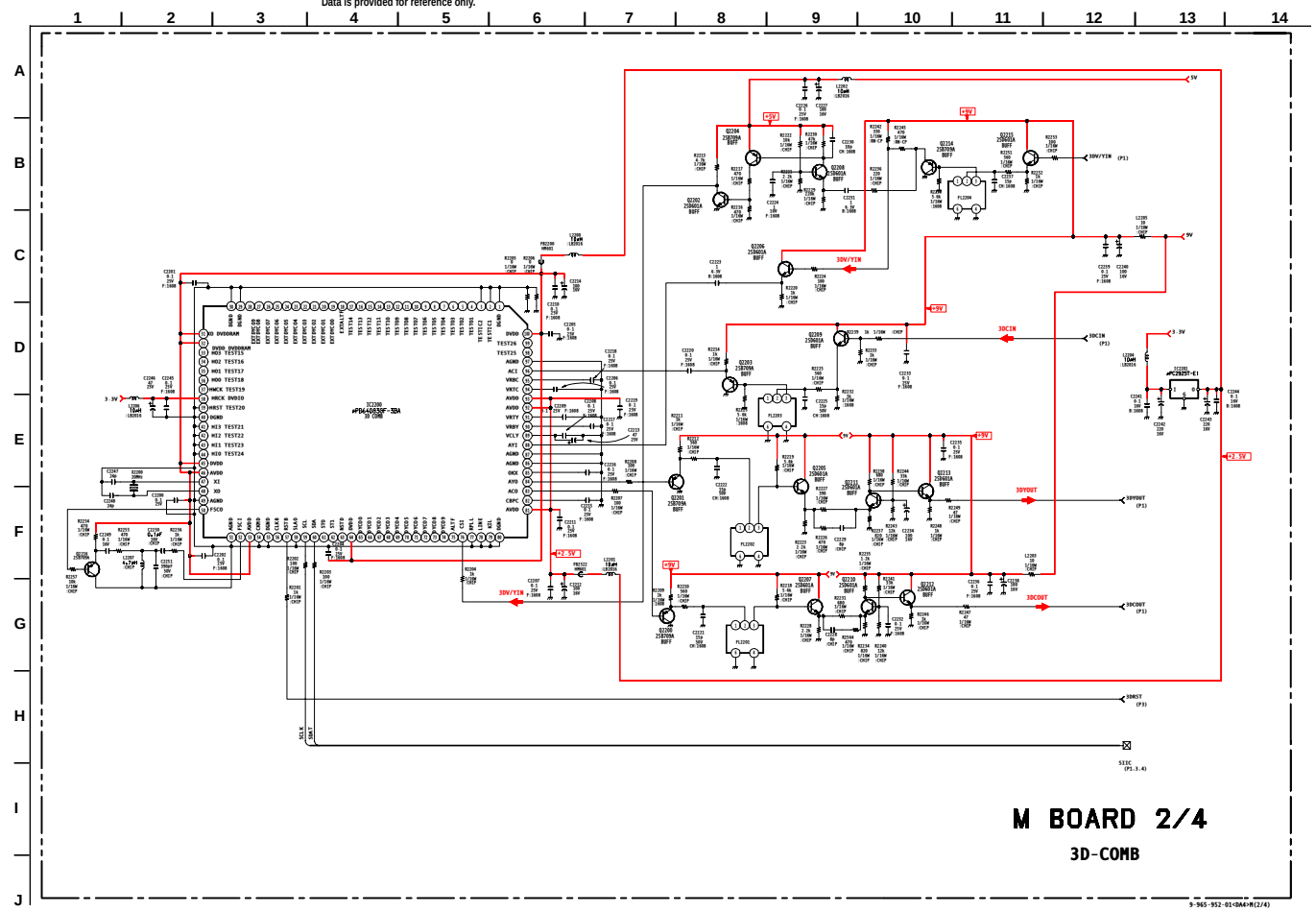
M BOARD SCHEMATIC DIAGRAM (2 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



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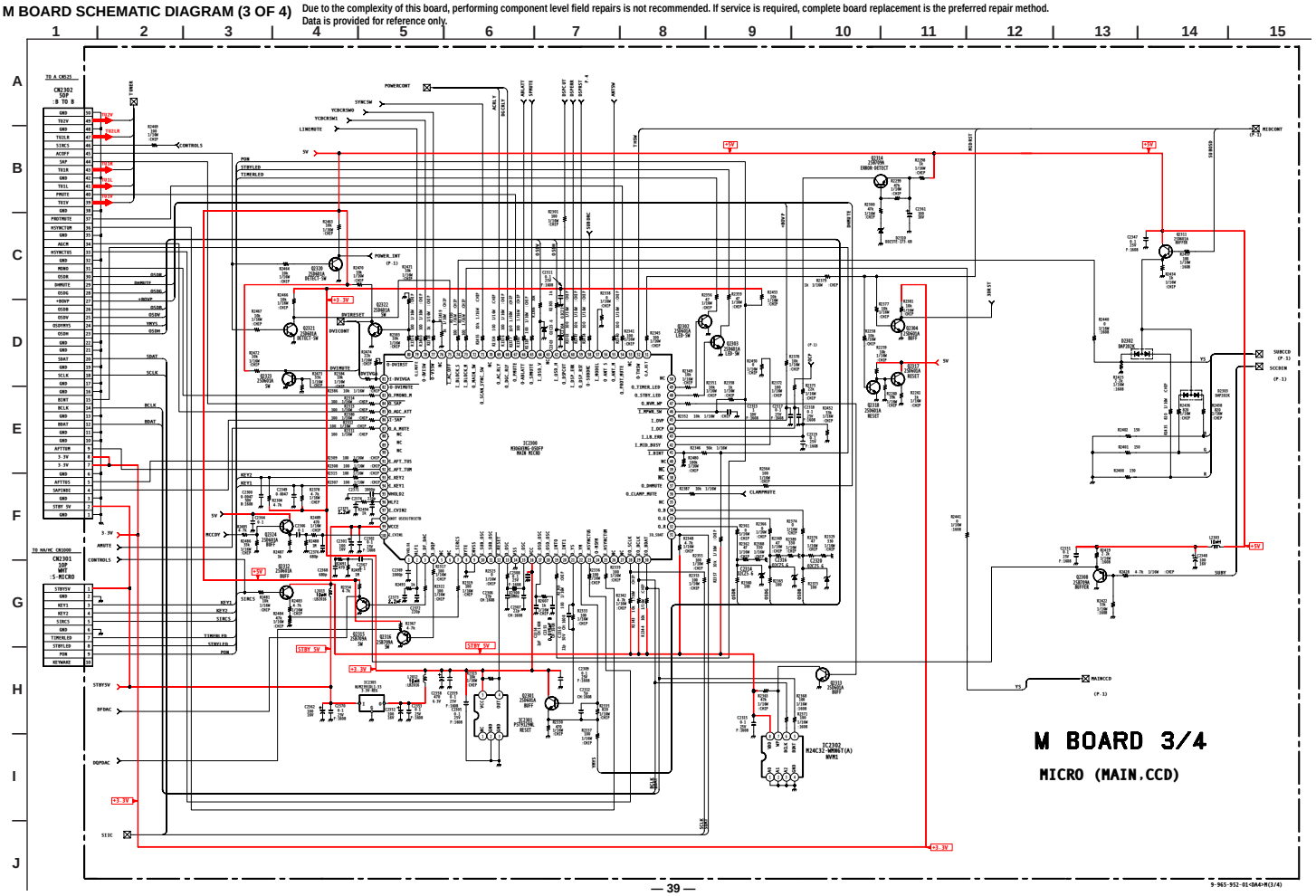
M BOARD SCHEMATIC DIAGRAM (3 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



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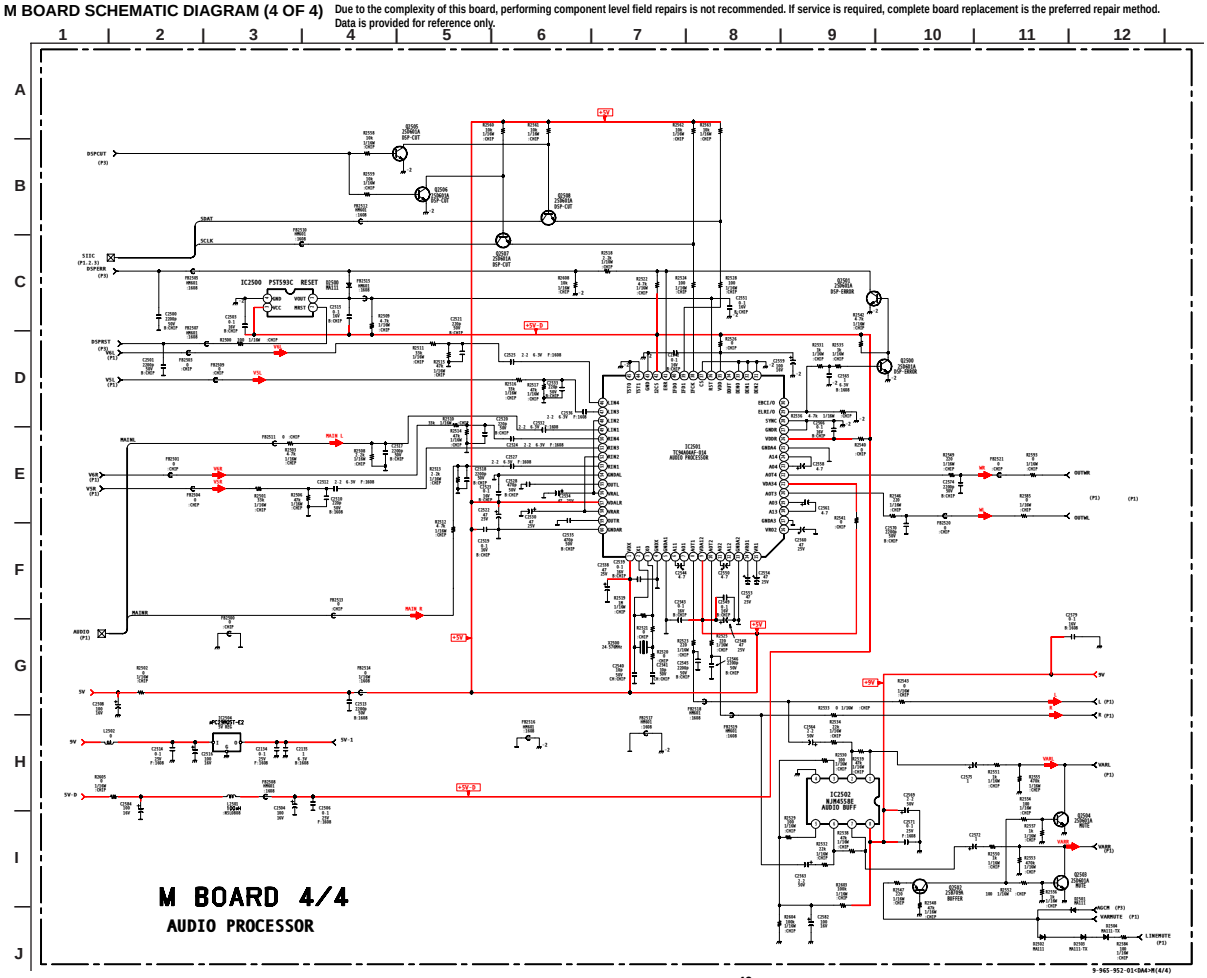
M BOARD SCHEMATIC DIAGRAM (4 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



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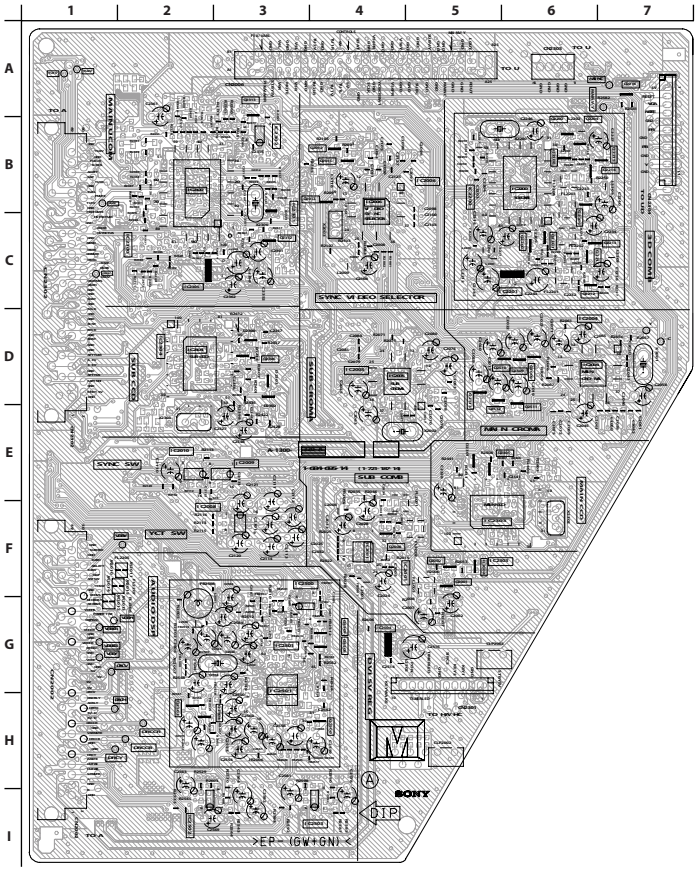
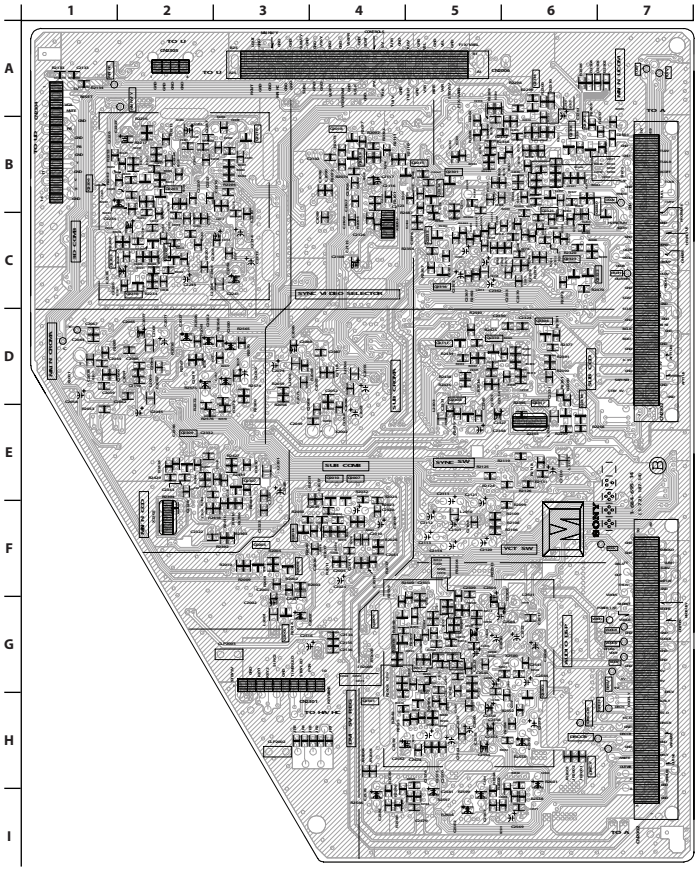
M [VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]

COMPONENT SIDE



M [VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]

CONDUCTOR SIDE



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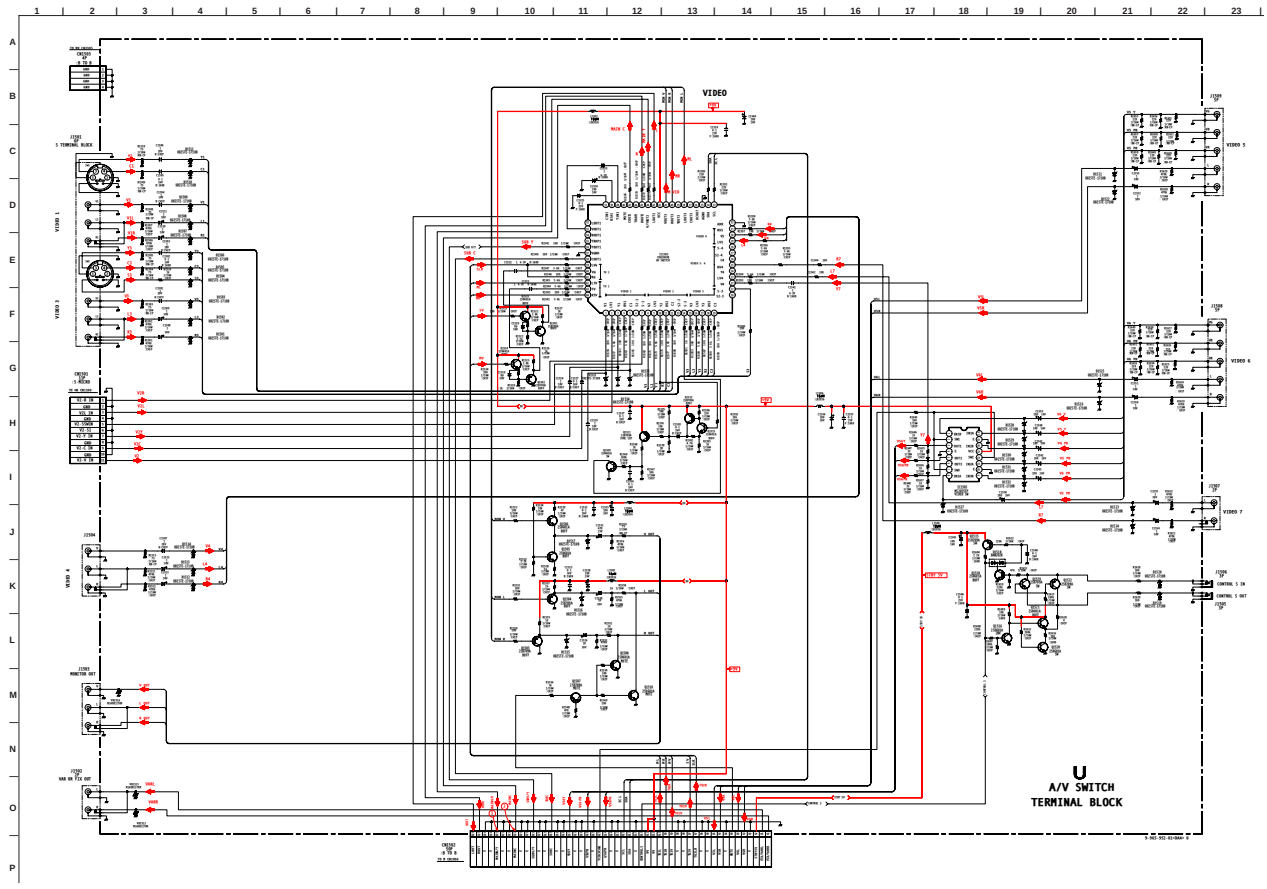
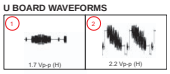
U BOARD SCHEMATIC DIAGRAM



U BOARD WAVEFORMS



U BOARD IC VOLTAGE LIST

IC1502		21	4.9	43	4.5	IC1505	
PIN	VOLT	22	3.9	44	4.3	PIN	VOLT
1	3.9	23	4.5	45	4.5	1	4.7
2	4.5	24	N/C	46	N/C	2	0.0
3	3.9	25	4.5	47	4.4	3	3.2
4	4.5	26	N/C	48	N/C	4	GND
5	4.5	27	N/C	49	4.9	5	3.2
6	N/C	28	N/C	50	4.5	6	3.2
7	4.9	29	4.5	51	4.5	7	0.0
8	4.3	30	3.9	52	N/C	8	4.6
9	4.5	31	4.5	53	4.4	9	4.6
10	3.9	32	GND	54	N/C	10	GND
11	4.5	33	4.6	55	N/C	11	4.7
12	4.5	34	4.6	56	4.1	12	0.0
13	N/C	35	GND	57	GND	13	9.0
14	4.9	36	N/C	58	4.4	14	4.7
15	3.9	37	N/C	59	4.5	15	GND
16	4.5	38	4.5	60	5.0	16	4.7
17	3.9	39	N/C	61	4.5		
18	4.5	40	4.5	62	4.5		
19	4.5	41	4.4	63	4.9		
20	N/C	42	9.0	64	4.5		

All voltages are in V.

U BOARD TRANSISTOR LIST

	B	C	E
Q1501	2.0	GND	2.7
Q1502	3.3	GND	4.0
Q1503	4.5	GND	5.2
Q1504	4.5	GND	5.2
Q1505	1.6	3.7	0.9
Q1506	4.4	8.3	3.8
Q1507	0.0	0.0	0.0
Q1508	0.0	0.0	GND
Q1509	0.0	4.9	GND
Q1510	0.0	0.0	GND
Q1511	8.5	0.0	9.0
Q1512	8.4	5.3	9.0
Q1513	3.8	8.4	3.2
Q1515	4.9	4.2	5.0
Q1516	0.6	0.1	GND
Q1518	0.0	4.9	GND
Q1519	5.0	0.0	0.0
Q1520	0.6	0.0	GND
Q1521	0.1	5.0	0.0
Q1522	5.0	0.0	0.0
Q1523	4.5	9.0	3.9
Q1524	6.5	9.0	3.9

All voltages are in V.

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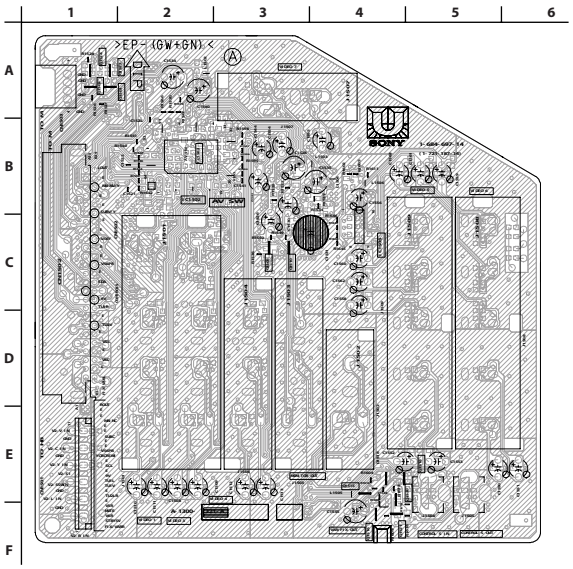
U [A/V SWITCH, TERMINAL BLOCK]

COMPONENT SIDE

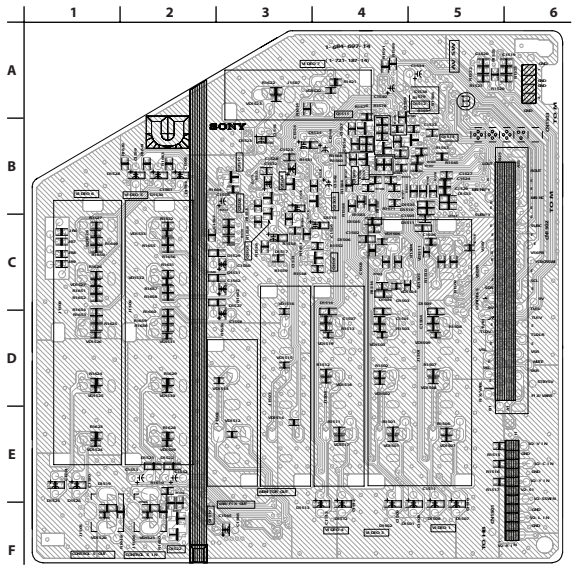


U BOARD LOCATOR LIST

DIODE		TRANSISTOR	
D1518	E-5	Q1501	**A-1**
IC		Q1502	A-1
IC1501	B-2	Q1503	A-2
IC1502	B-2	Q1508	C-3
		Q1510	C-3
		Q1515	F-4
		Q1516	F-4
		Q1518	E-5
		Q1520	F-5
		Q1521	F-4
		Q1523	A-2
		Q1524	A-1

U [A/V SWITCH, TERMINAL BLOCK]

CONDUCTOR SIDE



U BOARD LOCATOR LIST

DIODE		DIODE		DIODE		DIODE		TRANSISTOR	
D1501	E-2	D1510	E-5	D1520	B-1	D1529	C-4	Q1504	C-5
D1502	E-1	D1511	E-5	D1521	B-2	D1530	B-5	Q1505	C-4
D1503	E-3	D1512	C-2	D1522	B-2	D1531	C-4	Q1506	C-4
D1504	E-3	D1513	D-1	D1523	C-5	D1532	B-5	Q1507	D-4
D1505	D-4	D1514	D-3	D1524	D-5	D1533	E-5	Q1509	D-5
D1506	D-4	D1515	D-4	D1525	A-1	D1534	E-4	Q1511	D-5
D1507	E-1	D1516	D-4	D1526	A-1	D1535	E-5	Q1512	E-5
D1508	E-1	D1517	C-4	D1527	C-3			Q1513	E-5
D1509	E-3	D1519	A-1	D1528	B-5			Q1519	C-1
								Q1522	B-1

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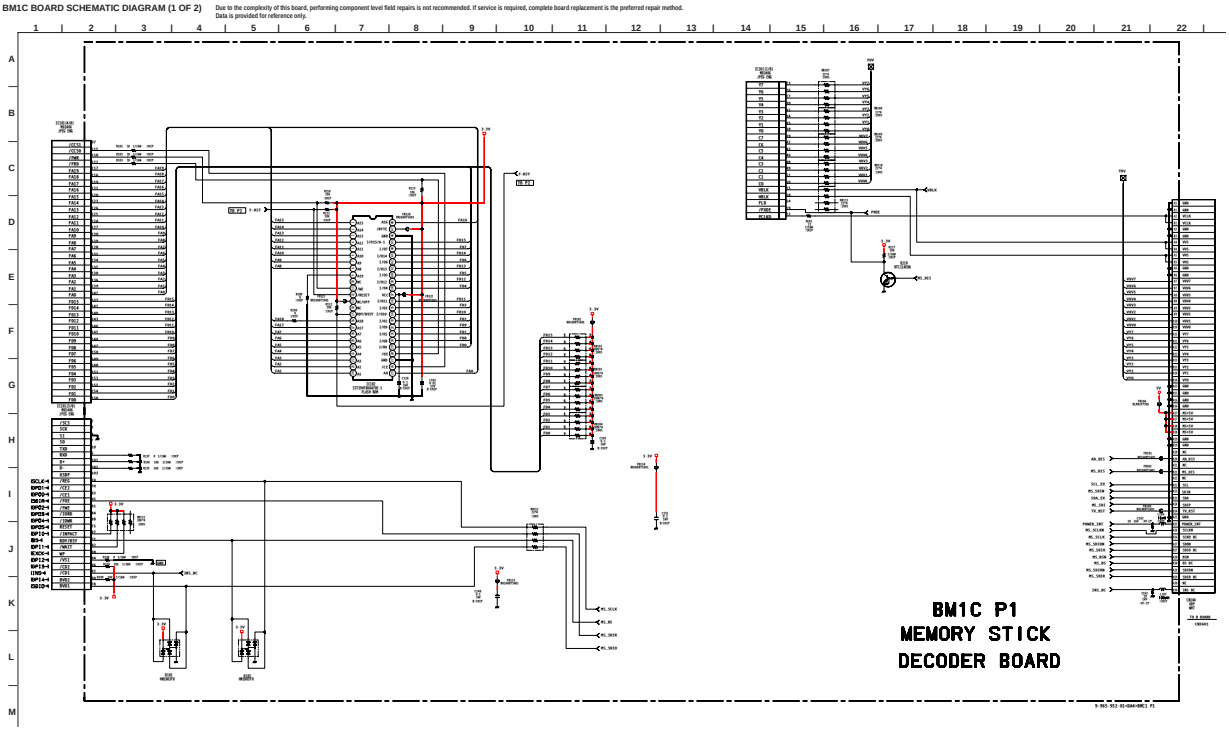
BM1C BOARD SCHEMATIC DIAGRAM (1 OF 2)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



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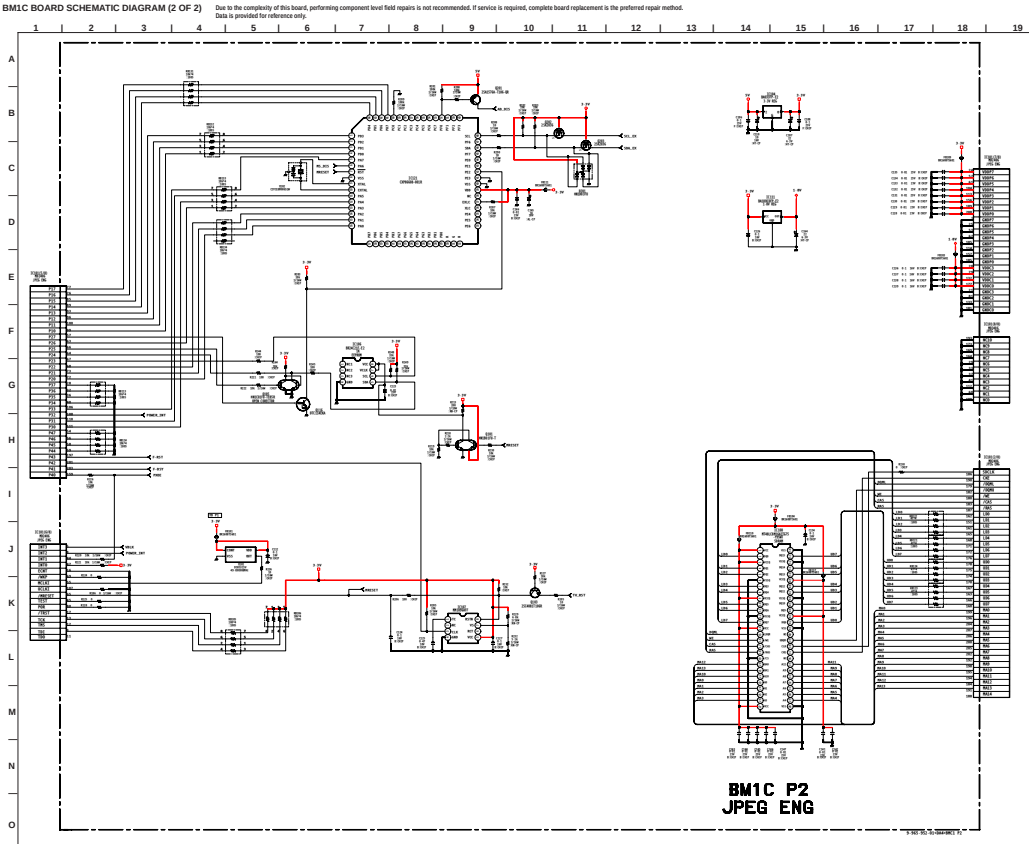
BM1C BOARD SCHEMATIC DIAGRAM (2 OF 2)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



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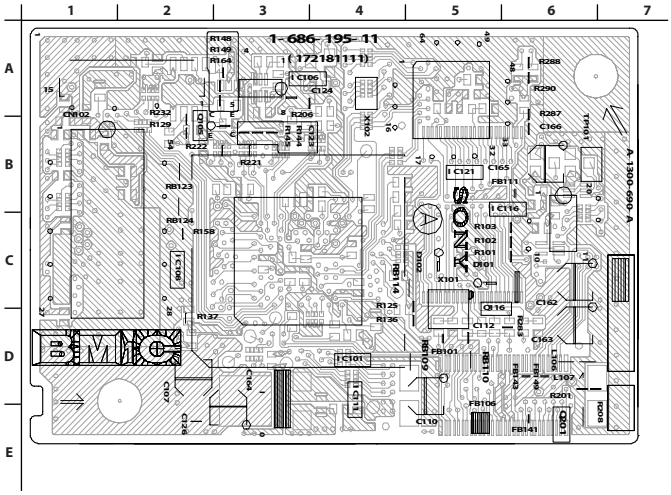
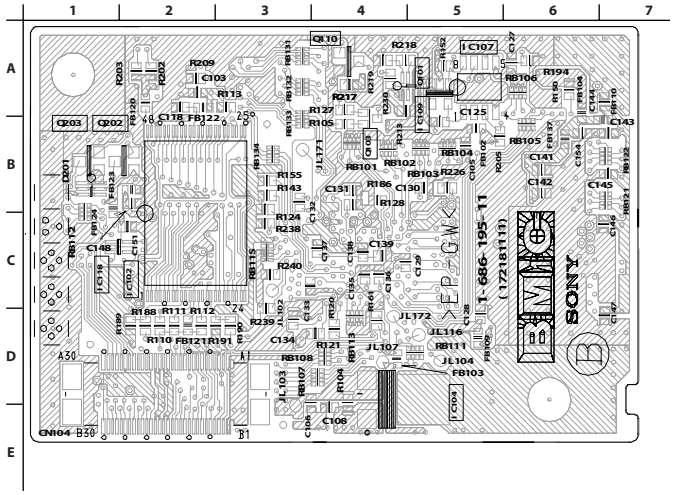
BM1C [MEMORY STICK, DECODER BOARD, JPEG ENG]

COMPONENT SIDE



BM1C [MEMORY STICK, DECODER BOARD, JPEG ENG]

CONDUCTOR SIDE



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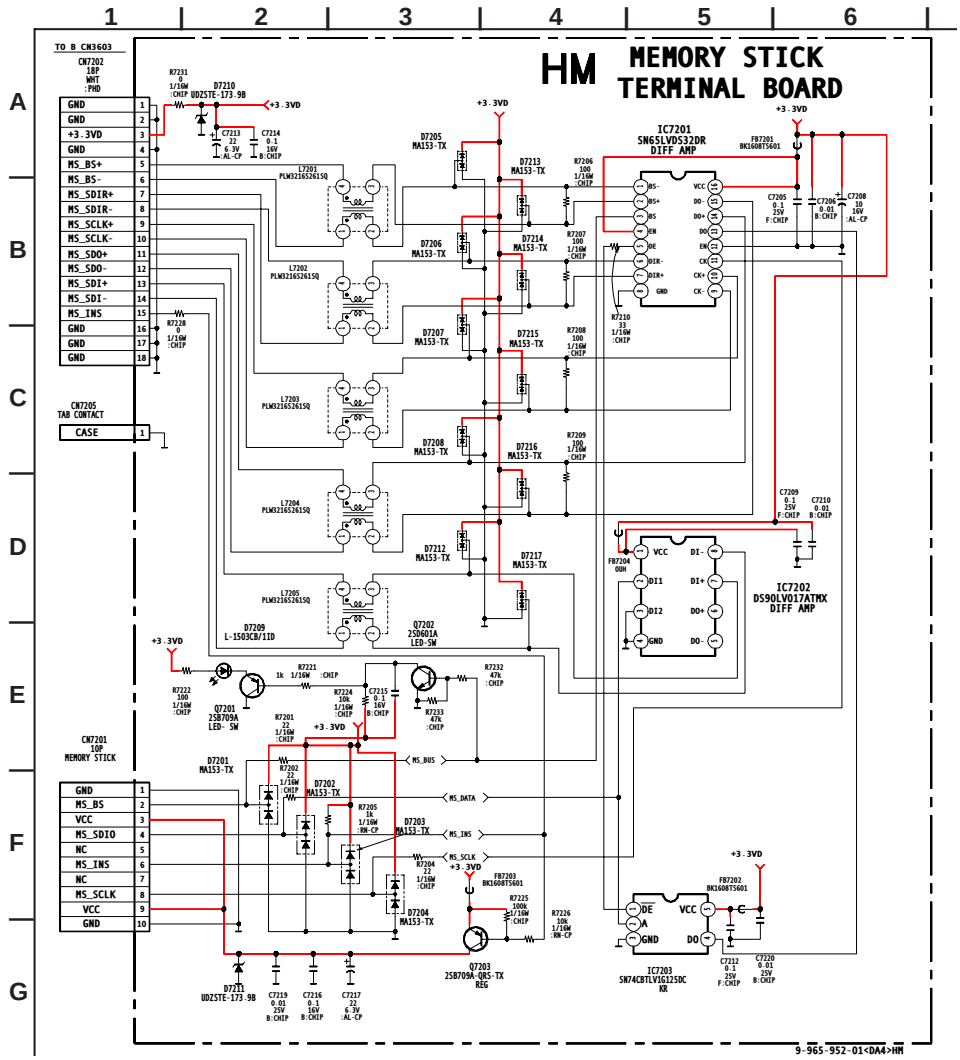
HM BOARD SCHEMATIC DIAGRAM

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



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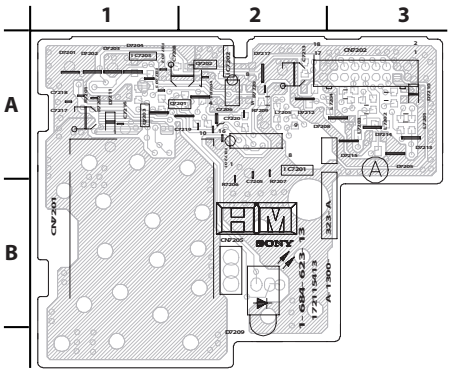
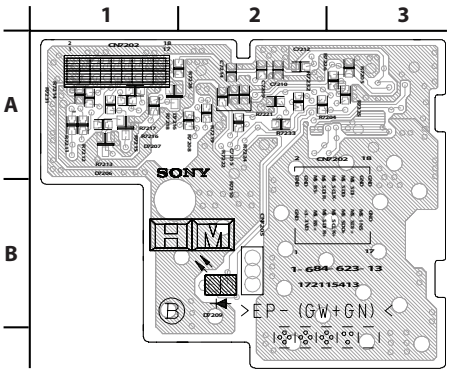
HM [MEMORY STICK, TERMINAL BOARD]

COMPONENT SIDE



HM [MEMORY STICK, TERMINAL BOARD]

CONDUCTOR SIDE



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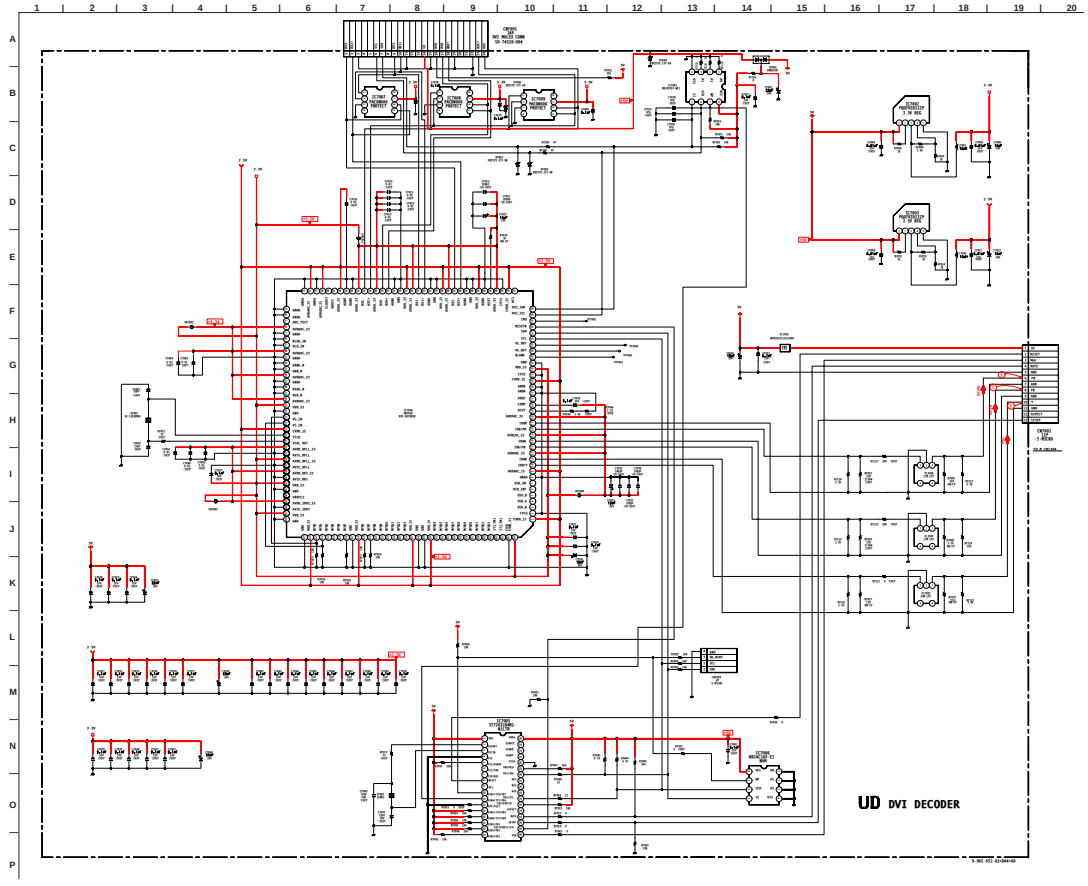
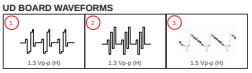
UD BOARD SCHEMATIC DIAGRAM

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



UD BOARD WAVEFORMS



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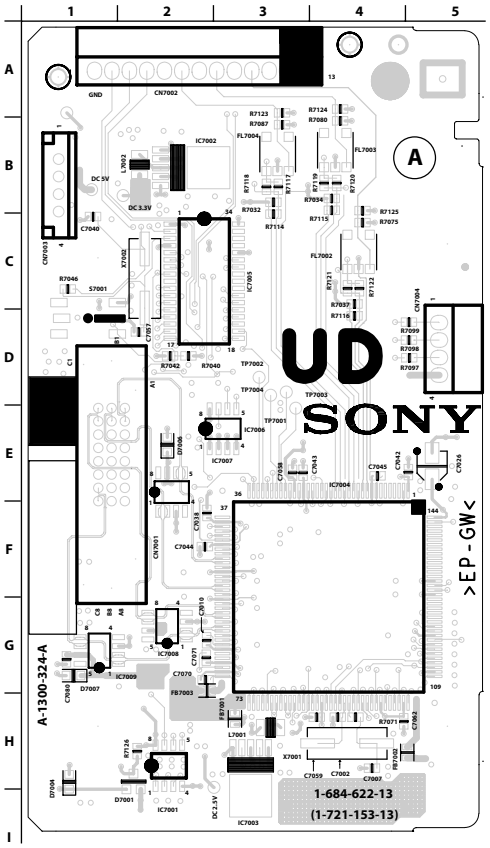
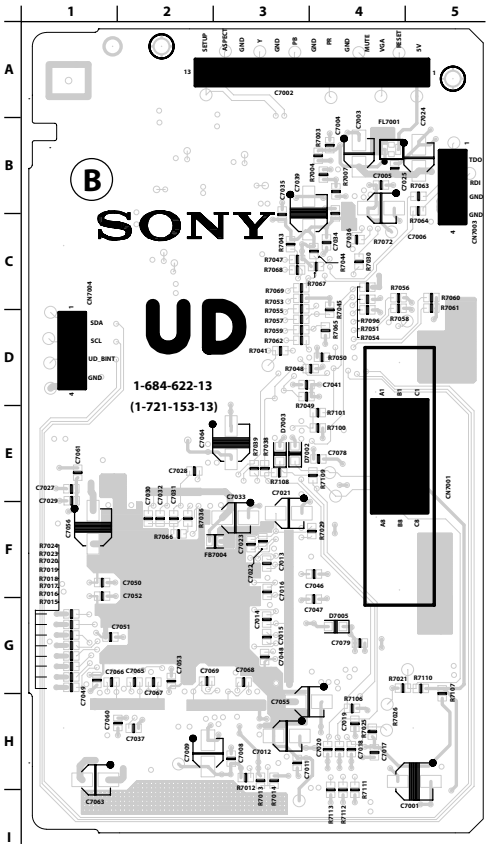
UD [DVI DECODER]

COMPONENT SIDE



UD [DVI DECODER]

CONDUCTOR SIDE



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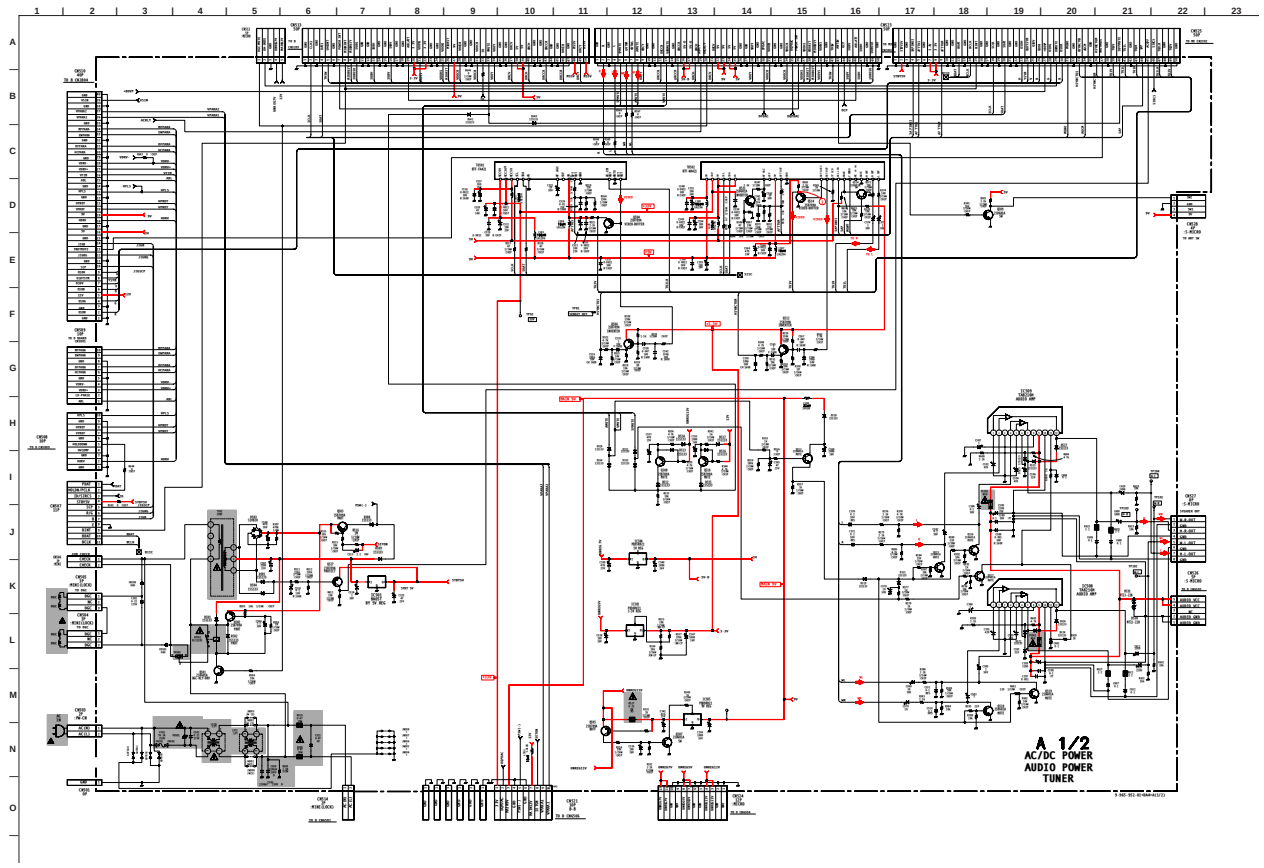
A BOARD SCHEMATIC DIAGRAM (1 OF 2)



A BOARD WAVEFORM

A BOARD IC VOLTAGE LIST

IC501		IC508		8	5.1	IC903	
PIN	VOLT	PIN	VOLT	9	24.0	PIN	VOLT
I	7.0	1	1.6	10	0.0	1	4.9
O	5.0	2	0.1	11	4.4	2	4.9
GND	GND	3	GND	12	10.7	3	4.9
IC502		4	0.1	IC900		4	4.9
PIN	VOLT	5	1.6	PIN	VOLT	5	N/C
I	5.0	6	7.9	1	3.3	6	5.0
O	3.3	7	11.0	2	3.3	7	5.0
GND	GND	8	5.1	3	0.1	8	5.0
4	3.4	9	24.0	4	-15.7	9	5.0
IC504		10	0.0	5	GND	10	12.0
PIN	VOLT	11	4.4	6	15.3	11	4.5
I	7.0	12	10.8	7	N/C	12	5.0
O	5.0	IC509		8	3.3	13	5.0
GND	GND	PIN	VOLT	9	GND	14	1.2
4	N/C	1	1.0	IC901		15	5.0
IC505		2	0.1	PIN	VOLT	16	4.6
PIN	VOLT	3	GND	I	11.0	17	4.6
I	11.0	4	0.1	O	5.0	18	GND
O	9.0	5	1.6	GND	GND		
GND	GND	6	8.0				
4	2.3	7	11.0				

All voltages are in V.

A BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q501	0.1	19.4	GND
Q502	21.3	19.4	21.3
Q503	21.2	0.2	21.3
Q504	3.9	GND	4.5
Q505	10.0	0.1	11.0
Q506	3.5	0.5	3.3
Q507	0.1	2.3	GND
Q508	10.5	0.3	0.0
Q509	0.7	0.1	GND
Q510	12.0	0.0	12.0
Q511	0.1	7.5	GND
Q512	3.3	0.5	3.3
Q513	0.0	9.0	0.0
Q514	5.9	GND	6.5
Q515	0.0	0.0	GND
Q516	0.0	0.0	GND
Q517	0.0	4.4	GND
Q518	0.0	0.0	GND
Q519	0.0	0.0	GND
Q524	0.7	0.1	GND
Q527	9.8	0.0	5.0
Q900	10.5	0.0	10.7
Q901	0.0	2.4	GND
Q903	0.0	0.0	GND
Q904	0.0	3.1	GND

All voltages are in V.

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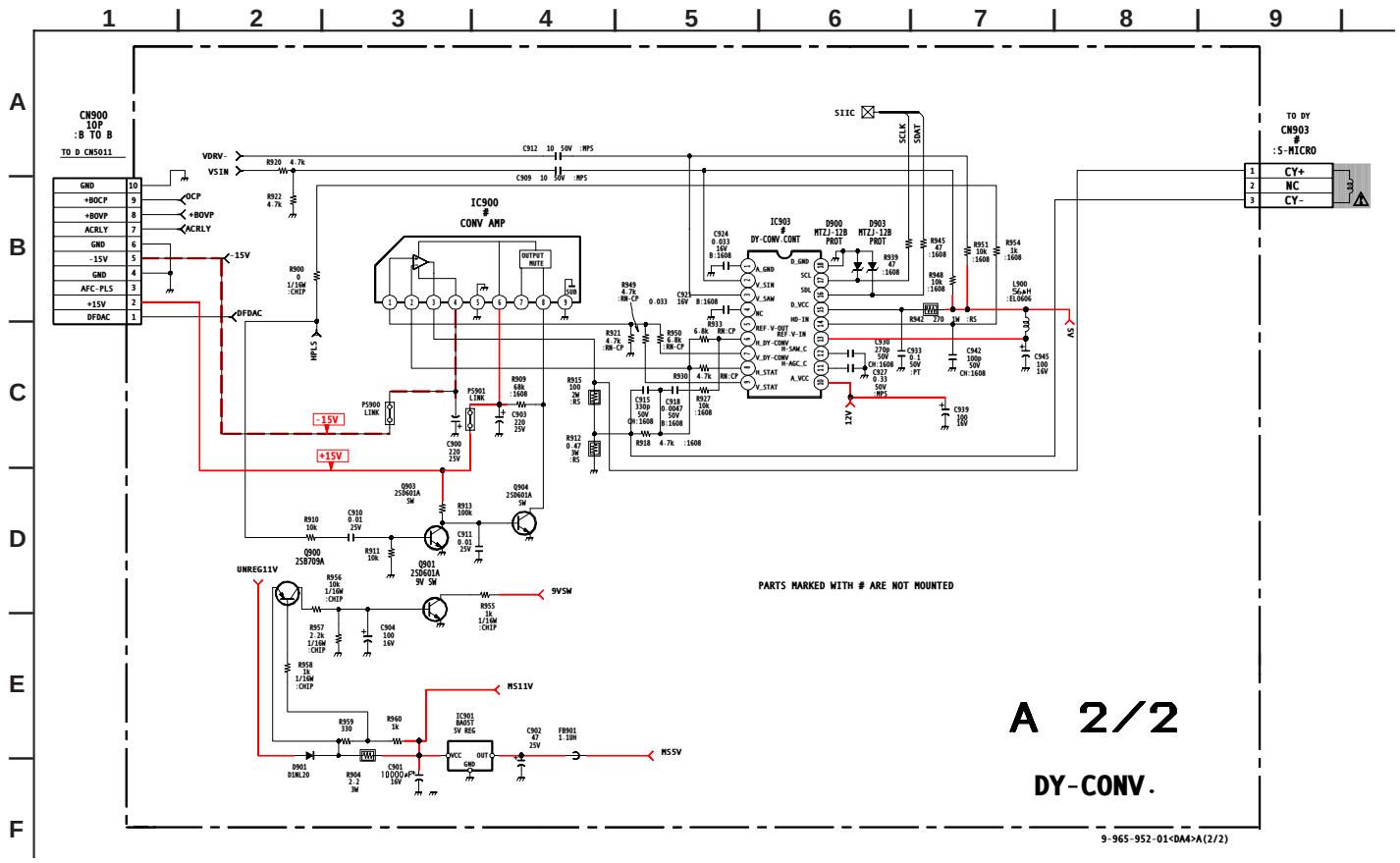
A BOARD SCHEMATIC DIAGRAM (2 OF 2)



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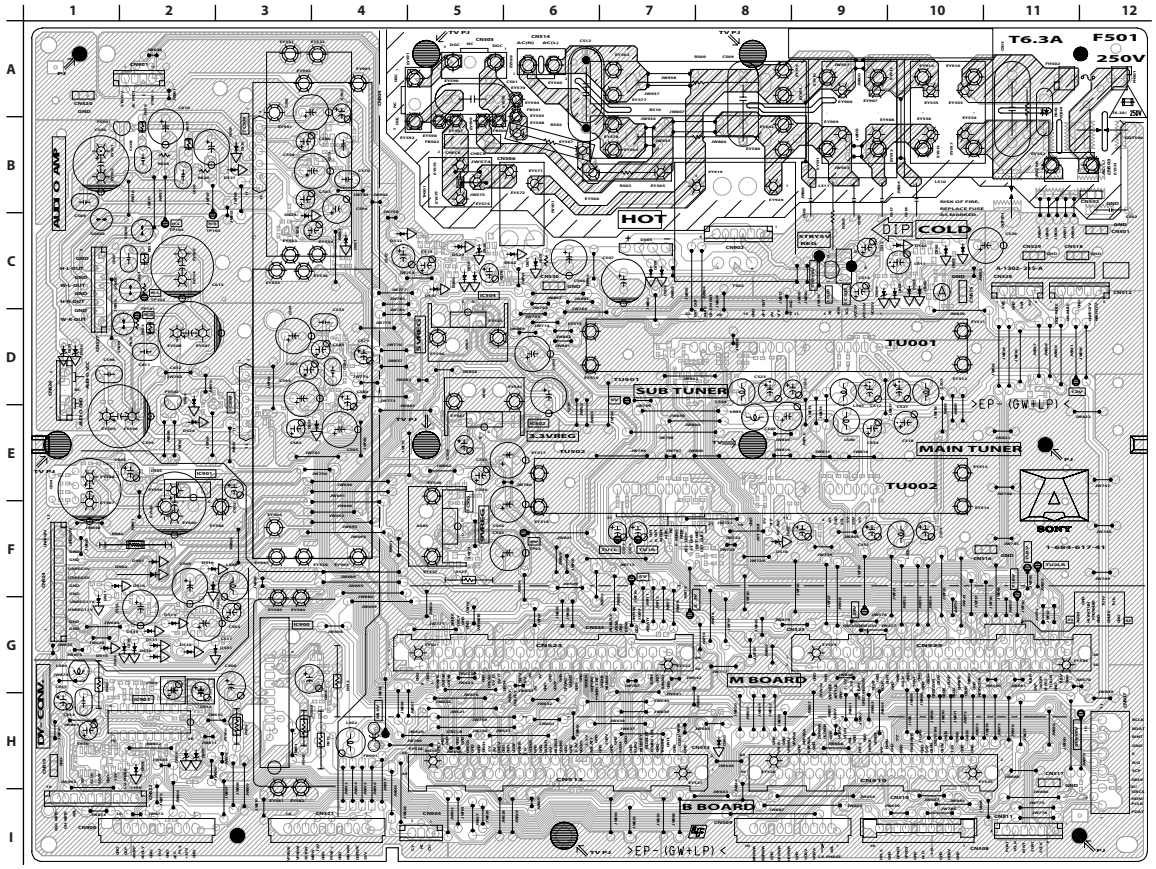
A [AC/DC POWER, AUDIO POWER, TUNER, DY-CONV]

COMPONENT SIDE



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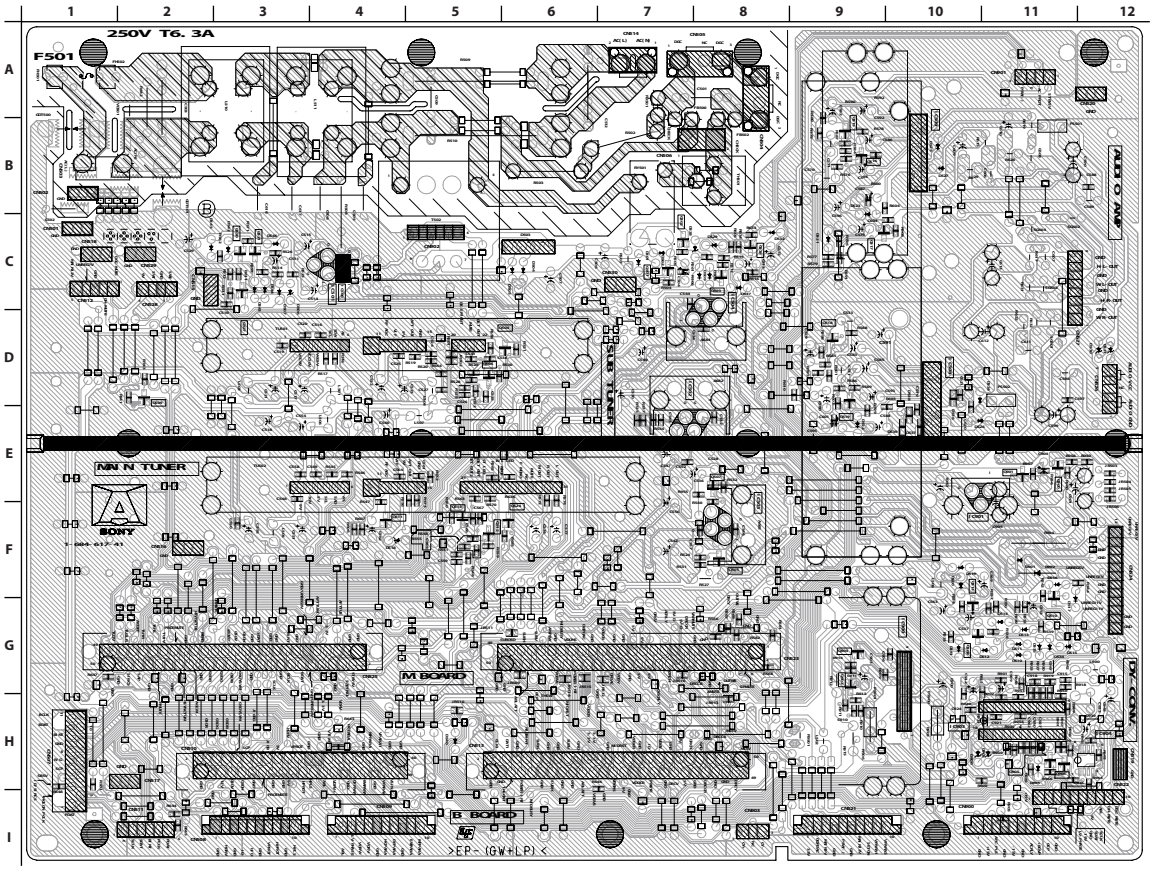
A [AC/DC POWER, AUDIO POWER, TUNER, DY-CONV]

CONDUCTOR SIDE



A BOARD LOCATOR LIST

DIODE		IC	
D501	C-7	IC501	C-4
D502	C-7	IC502	D-8
D503	C-6	IC504	C-8
D504	C-6	IC505	E-8
D505	C-6	IC508	D-10
D508	C-8	IC509	B-10
D509	C-8	IC900	G-10
D510	G-11	IC903	H-11
D511	G-11	IC904	H-11
D512	G-11	TRANSISTOR	
D513	G-11	Q501	C-7
D514	G-11	Q502	B-7
D515	G-11	Q503	C-8
D516	F-11	Q504	D-6
D517	F-11	Q505	F-8
D519	F-11	Q506	D-5
D520	F-10	Q507	E-8
D521	C-9	Q508	G-10
D522	E-9	Q509	E-2
D523	B-9	Q510	G-11
D524	D-11	Q511	F-4
D525	B-10	Q512	F-6
D526	E-11	Q513	F-10
D527	B-10	Q514	F-5
D530	D-12	Q515	B-9
D531	D-12	Q516	B-9
D534	G-11	Q517	C-9
D535	G-11	Q518	D-9
D540	H-5	Q519	E-9
D541	G-10	Q524	F-6
D900	H-11	Q527	C-3
D902	F-11	Q900	E-11
D903	H-11	Q901	E-11

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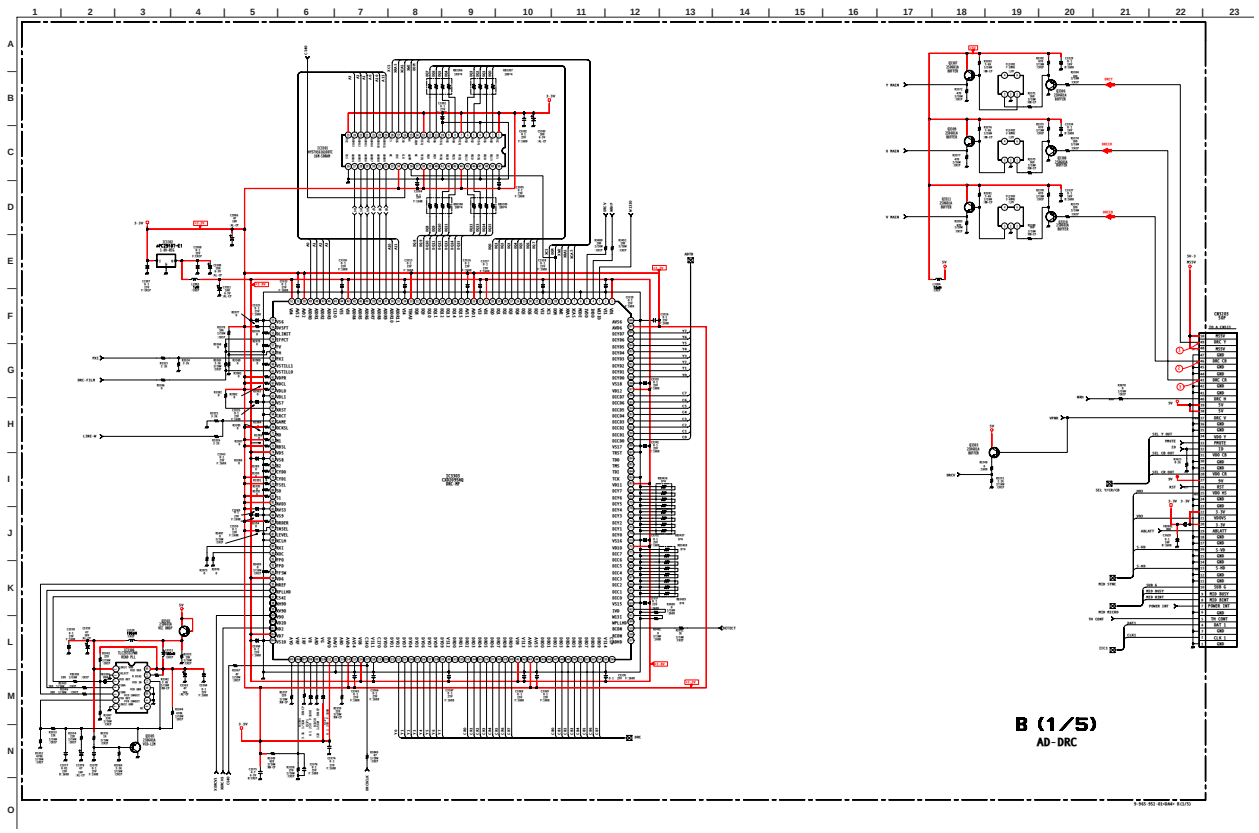
B BOARD SCHEMATIC DIAGRAM (1 OF 5)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



B BOARD WAVEFORMS

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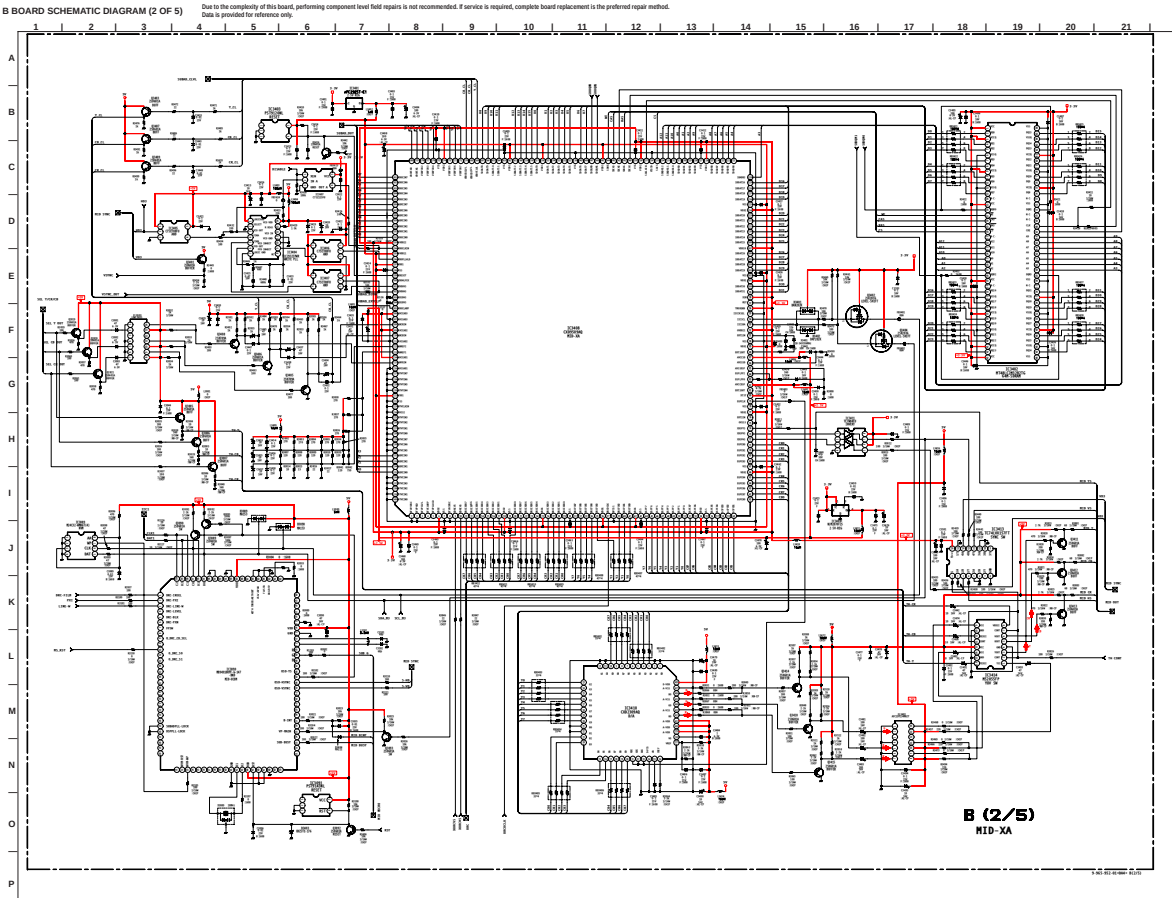
B BOARD SCHEMATIC DIAGRAM (2 OF 5)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



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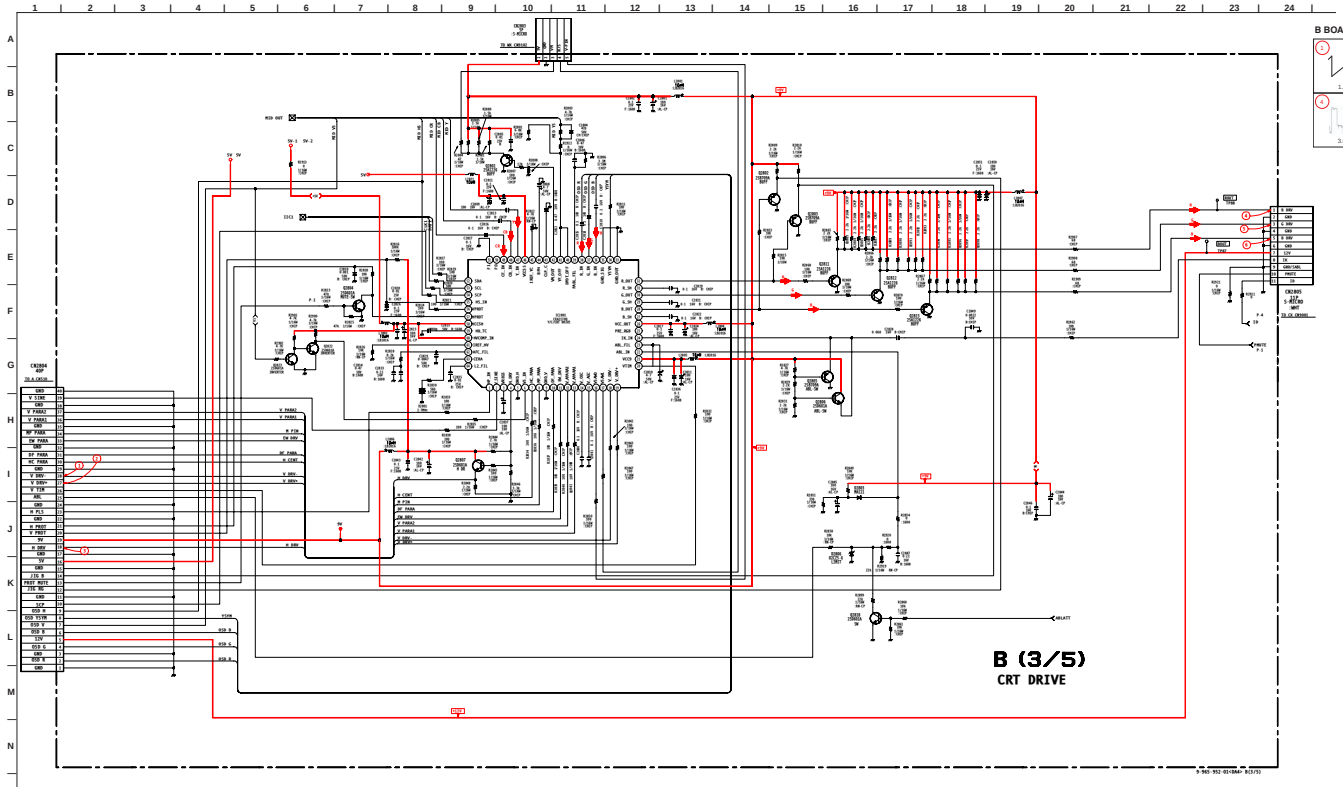
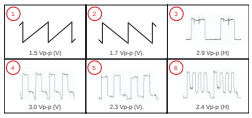
B BOARD SCHEMATIC DIAGRAM (3 OF 5)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



B BOARD WAVEFORMS



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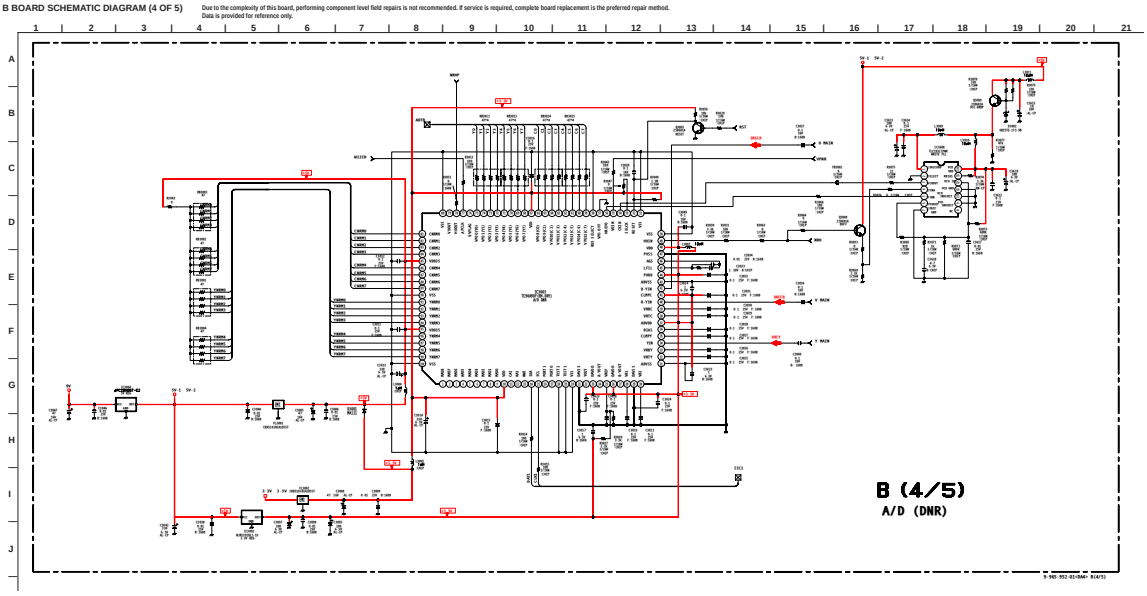
B BOARD SCHEMATIC DIAGRAM (4 OF 5)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



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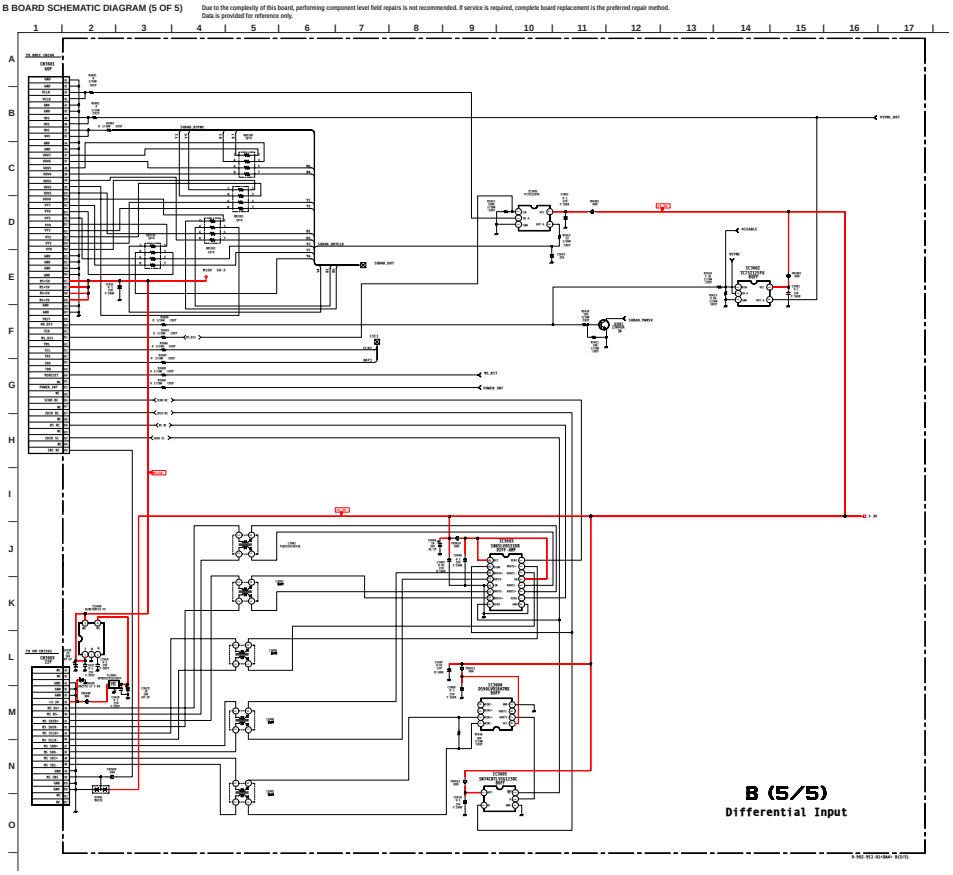
B BOARD SCHEMATIC DIAGRAM (5 OF 5)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



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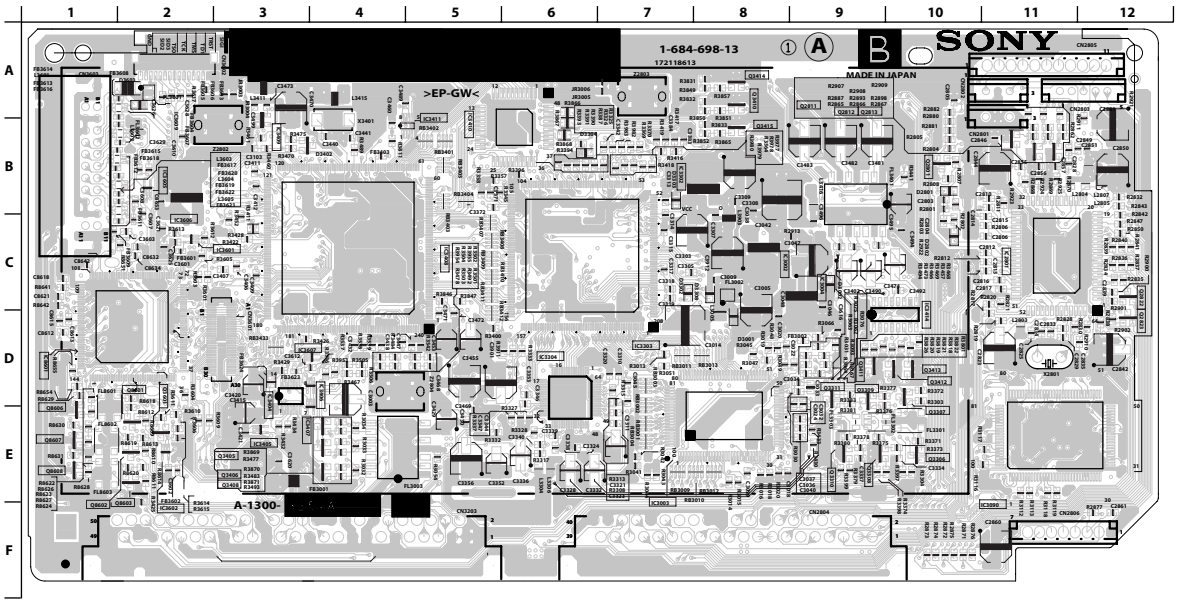
B [AD-DRC, MID-XA, CRT DRIVE, A/D (DNR), DIFFERENTIAL INPUT]

COMPONENT SIDE



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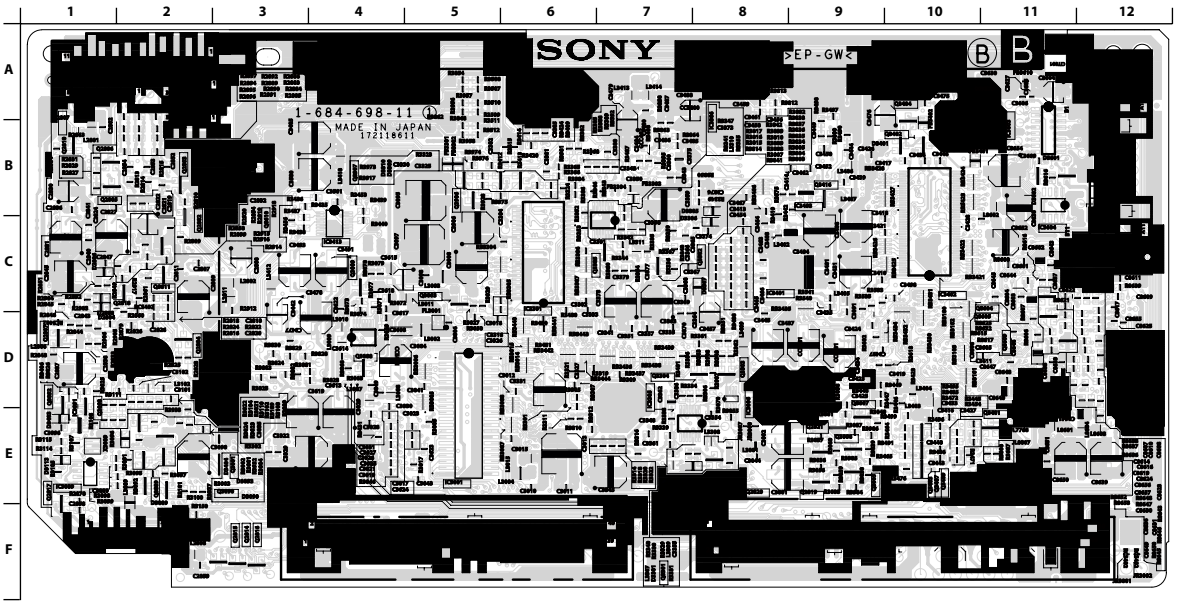
B [AD-DRC, MID-XA, CRT DRIVE, A/D (DNR), DIFFERENTIAL INPUT]

CONDUCTOR SIDE



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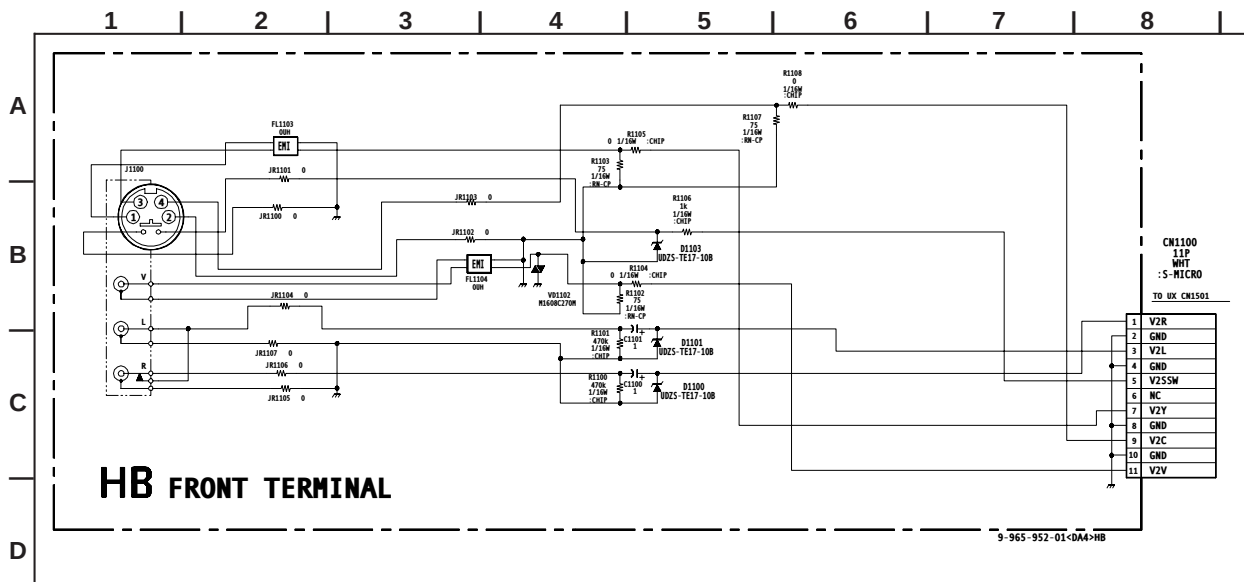
HB BOARD SCHEMATIC DIAGRAM



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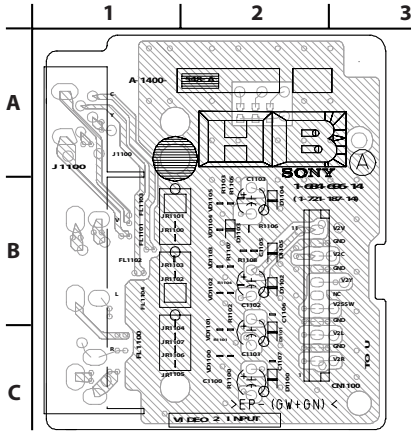
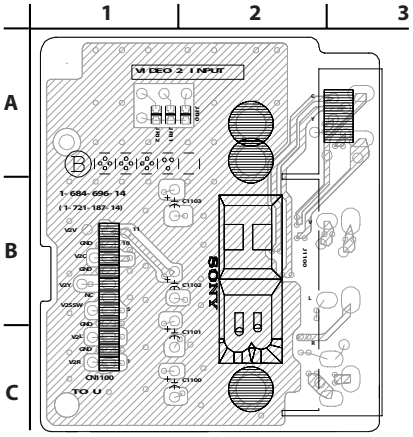
HB [FRONT TERMINAL]

COMPONENT SIDE



HB [FRONT TERMINAL]

CONDUCTOR SIDE



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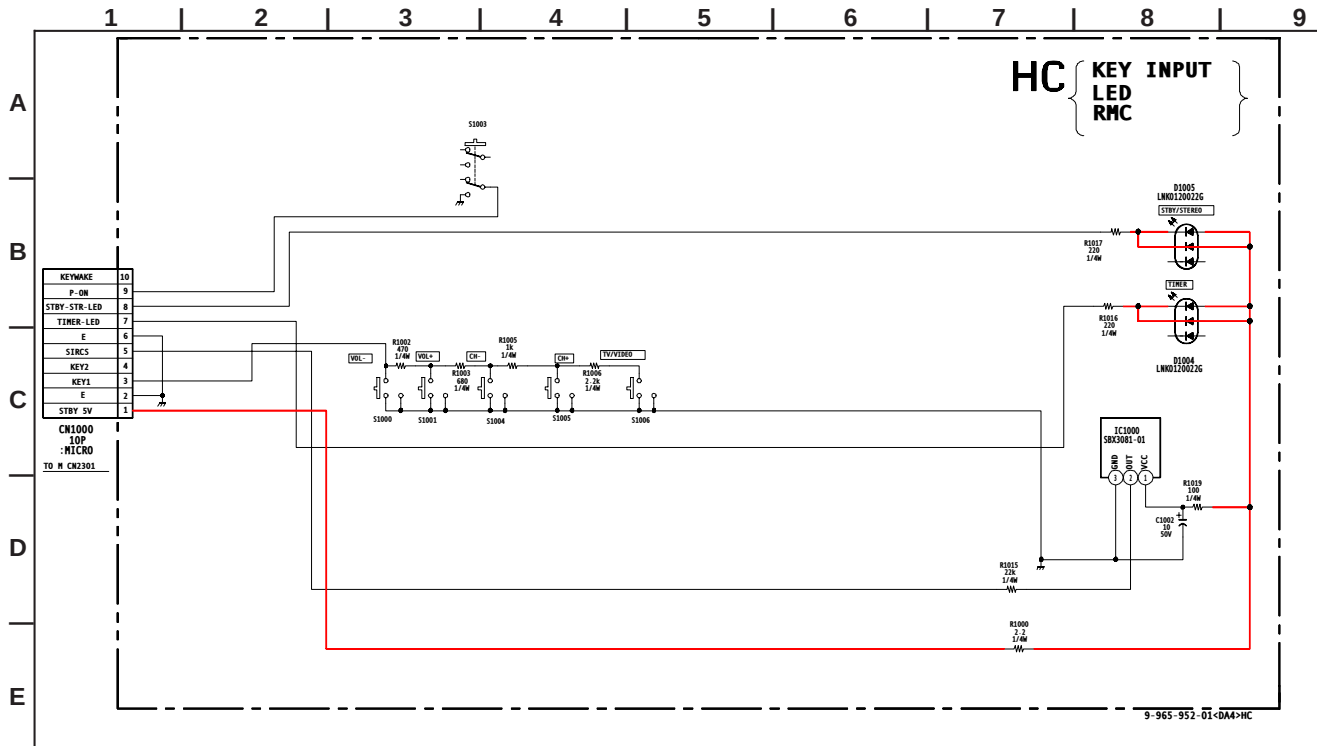
HC BOARD SCHEMATIC DIAGRAM



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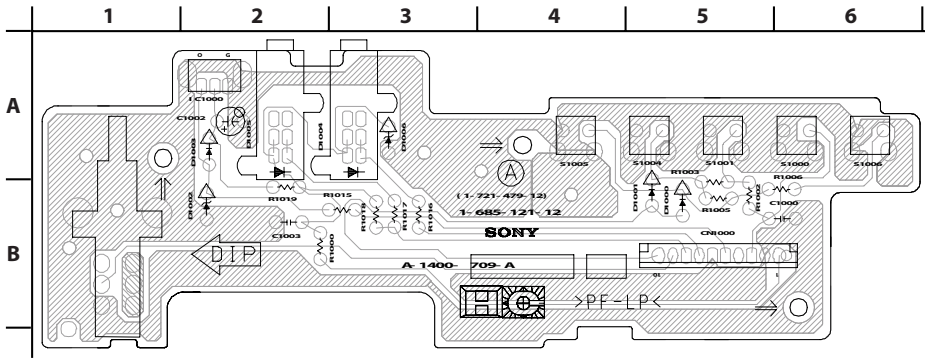
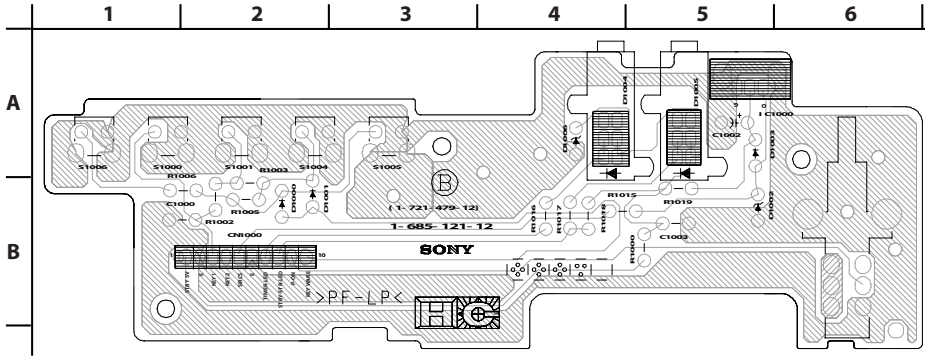
HC [KEY INPUT, LED. RMC]

COMPONENT SIDE



HC [KEY INPUT, LED. RMC]

CONDUCTOR SIDE



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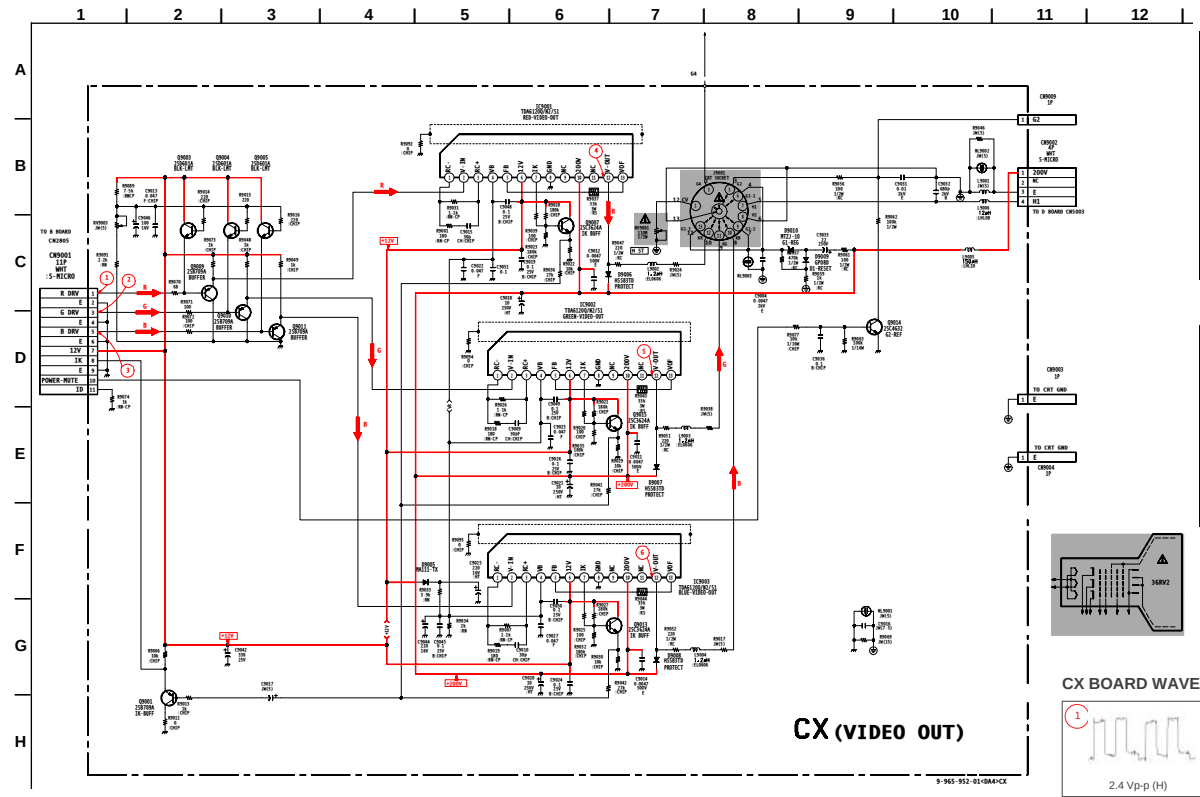
CX BOARD SCHEMATIC DIAGRAM



CX BOARD IC VOLTAGE LIST

IC9001		IC9002		IC9003	
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	0.0	1	0.0	1	0.0
2	3.5	2	3.5	2	3.5
3	5.0	3	5.0	3	5.0
4	3.5	4	3.5	4	3.5
5	0.0	5	0.0	5	0.0
6	12.0	6	12.0	6	12.0
7	9.4	7	9.4	7	9.4
8	GND	8	GND	8	GND
9	N/C	9	N/C	9	N/C
10	200.0	10	200.0	10	200.0
11	N/C	11	N/C	11	N/C
12	144.4	12	154.0	12	145.0
13	2.2	13	124.0	13	24.5

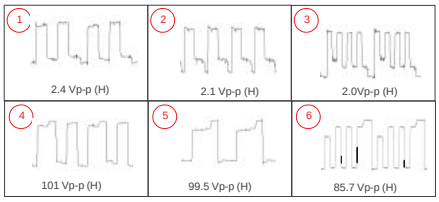
All voltages are in V.

CX BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q9001	8.6	GND	3.6
Q9003	2.2	12.0	3.6
Q9004	2.2	12.0	3.7
Q9005	2.2	12.0	3.5
Q9007	9.1	12.0	8.4
Q9009	3.7	GND	4.3
Q9010	3.7	GND	4.4
Q9011	3.5	GND	4.2
Q9013	9.0	12.0	8.5
Q9014	0.0	264.7	GND
Q9015	9.0	12.0	8.5

All voltages are in V.

CX BOARD WAVEFORMS



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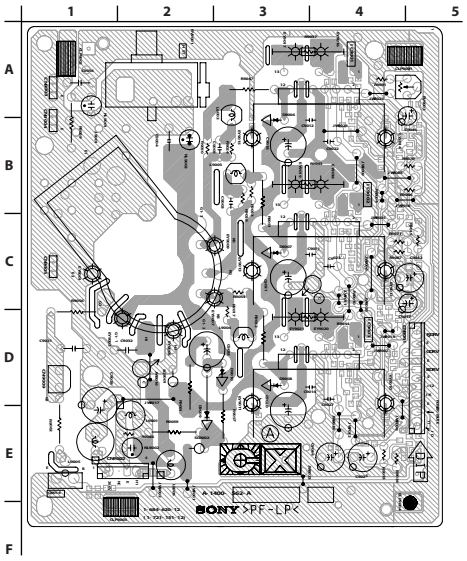
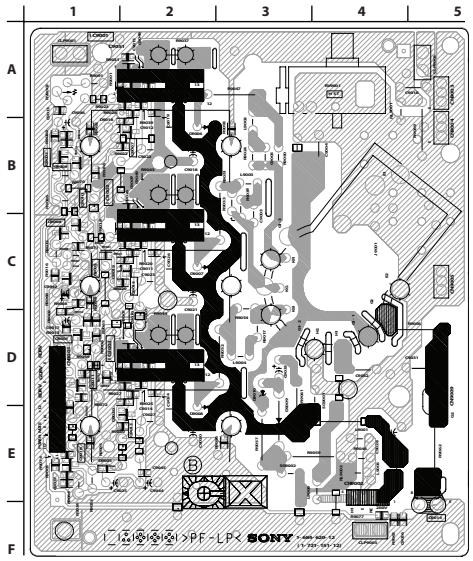
CX [VIDEO OUT]

COMPONENT SIDE



CX [VIDEO OUT]

CONDUCTOR SIDE



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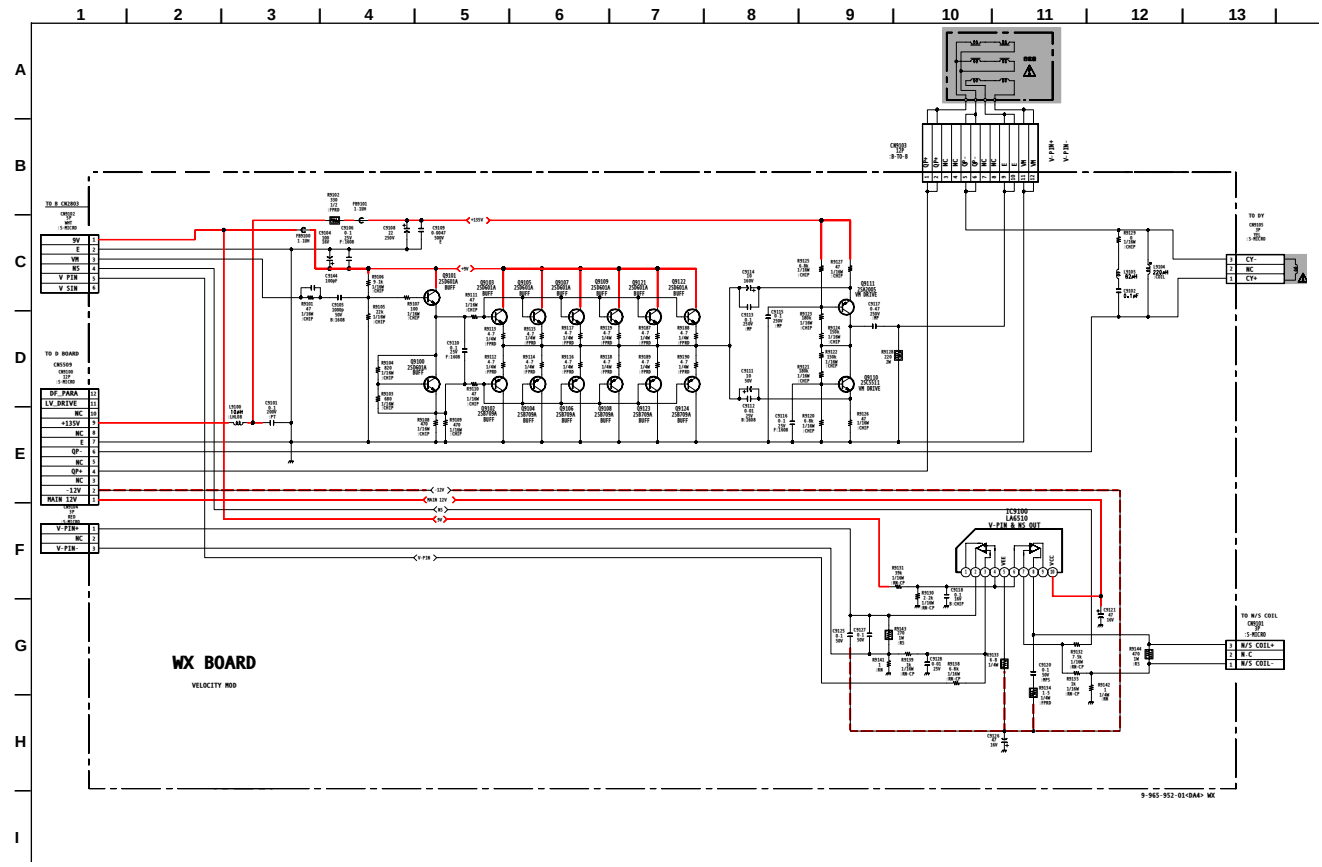
WX BOARD SCHEMATIC DIAGRAM



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WX BOARD IC VOLTAGE LIST

IC9100		IC9102		IC9103	
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	NC	1	0.0	1	6.0
2	0.0	2	0.0	2	3.5
3	0.0	3	0.0	3	3.6
4	0.5	4	0.0	4	-12.0
5	-12.0	5	-12.0	5	1.2
6	0.5	6	NC	6	1.2
7	0.5	7	NC	7	1.2
8	0.0	8	NC	8	12.0
9	NC	9	NC		
10	12.0	10	12.0		

All voltages are in V.

WX BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q9100	4.3	5.2	3.6
Q9101	0.0	9.0	5.2
Q9102	3.6	GND	4.3
Q9103	5.1	9.0	4.5
Q9104	3.6	GND	4.3
Q9105	5.1	9.0	4.5
Q9106	3.6	GND	4.3
Q9107	5.1	9.0	4.5
Q9108	3.6	GND	4.3
Q9109	5.1	9.0	4.5
Q9110	0.8	66.7	0.2
Q9111	133.8	66.7	134.3
Q9112	0.6	12.0	1.2
Q9113	0.6	0.0	GND
Q9114	0.6	0.0	GND
Q9115	0.6	0.0	GND
Q9116	4.7	4.2	GND
Q9117	6.6	12.0	6.7
Q9118	6.6	GND	6.7
Q9121	5.1	9.0	4.5
Q9122	5.1	9.0	4.5
Q9123	3.6	GND	4.3
Q9124	3.6	GND	4.3
Q9125	5.7	12.0	6.3

	D	G	S
Q9119	0.0	6.7	GND

All voltages are in V.

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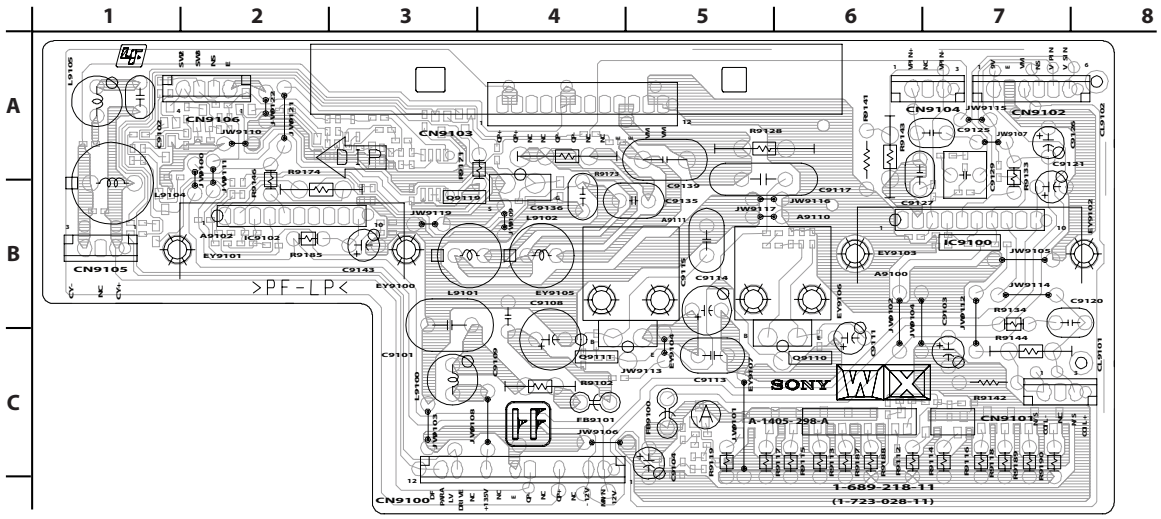
WX [VELOCITY MOD]

COMPONENT SIDE



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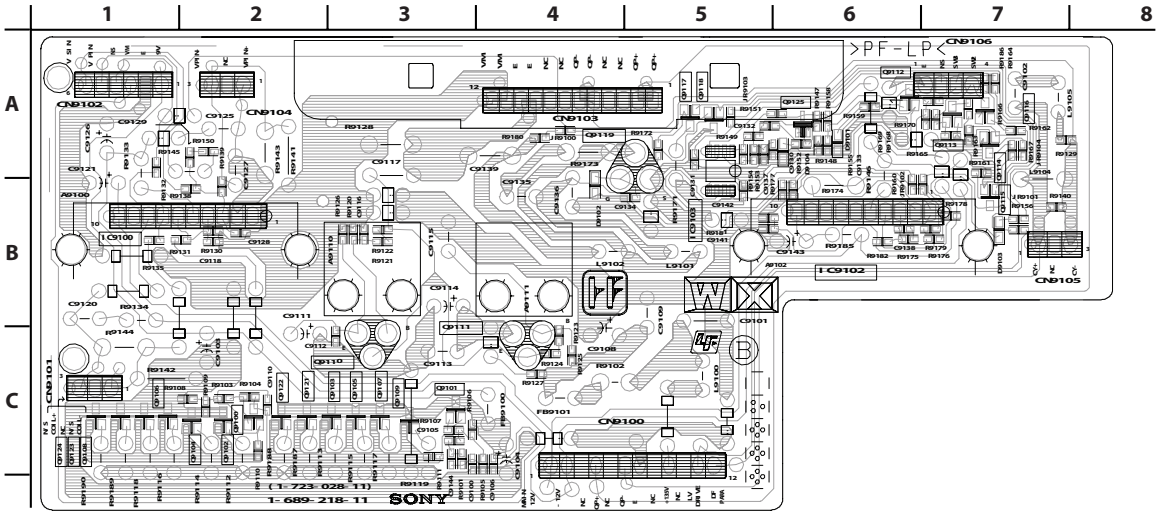
WX [VELOCITY MOD]

CONDUCTOR SIDE



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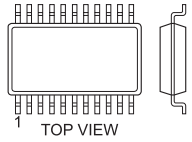
5-5. SEMICONDUCTORS (1 OF 2)



14pin

M52055FP
TLC2932IPW
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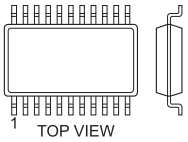

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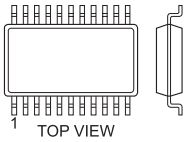

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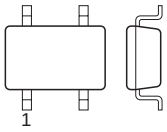

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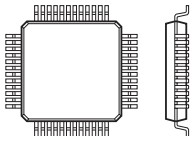

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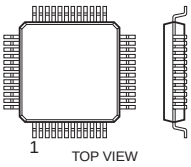

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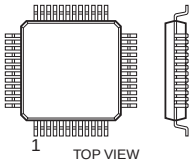

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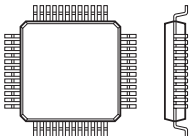

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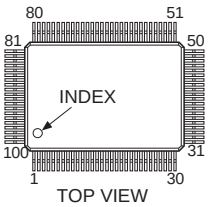

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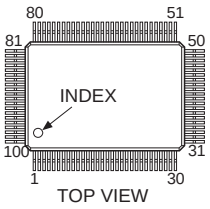

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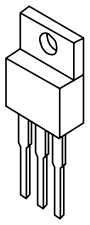

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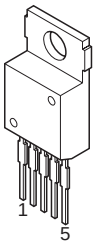

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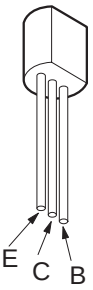

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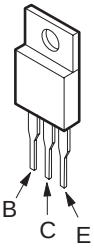

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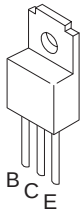

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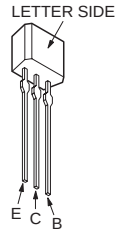

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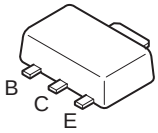

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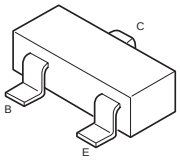

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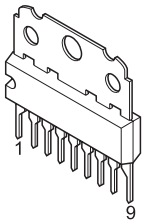

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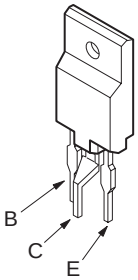

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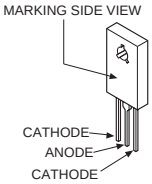

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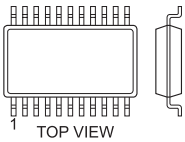

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NJM2903M-TE2
NJM2904M-TE2
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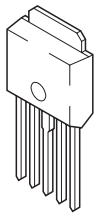
SEMICONDUCTORS (2 OF 2)



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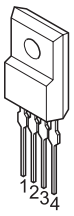

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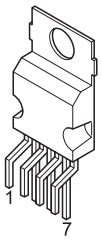

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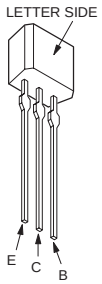

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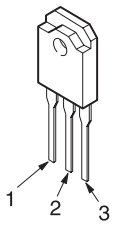

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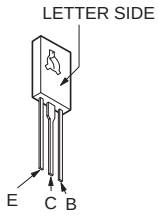

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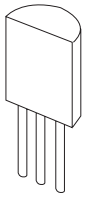

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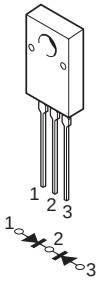

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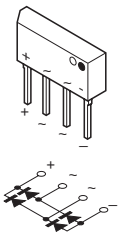

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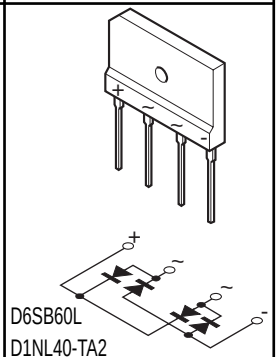

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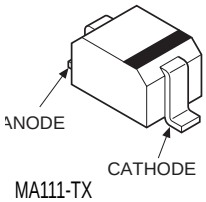

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UDZSTE-176.8B
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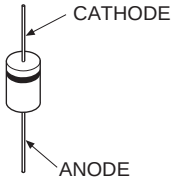

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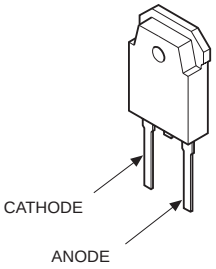

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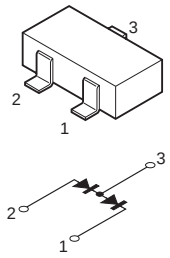

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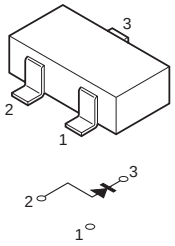

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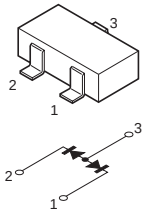

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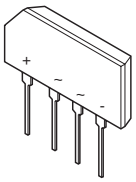

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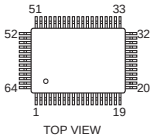

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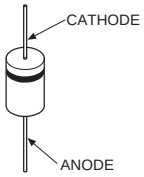

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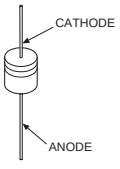

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MTZJ-T-77-13C
MTZJ-T-77-2.0A
MTZJ-T-77-22
MTZJ-T-77-3.0B
MTZJ-T-77-3.9B
MTZJ-T-77-33C
MTZJ-T-77-4.7B
MTZJ-T-77-5.1B
MTZJ-T-77-7.5B
RD5.6ES-T1B2

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SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

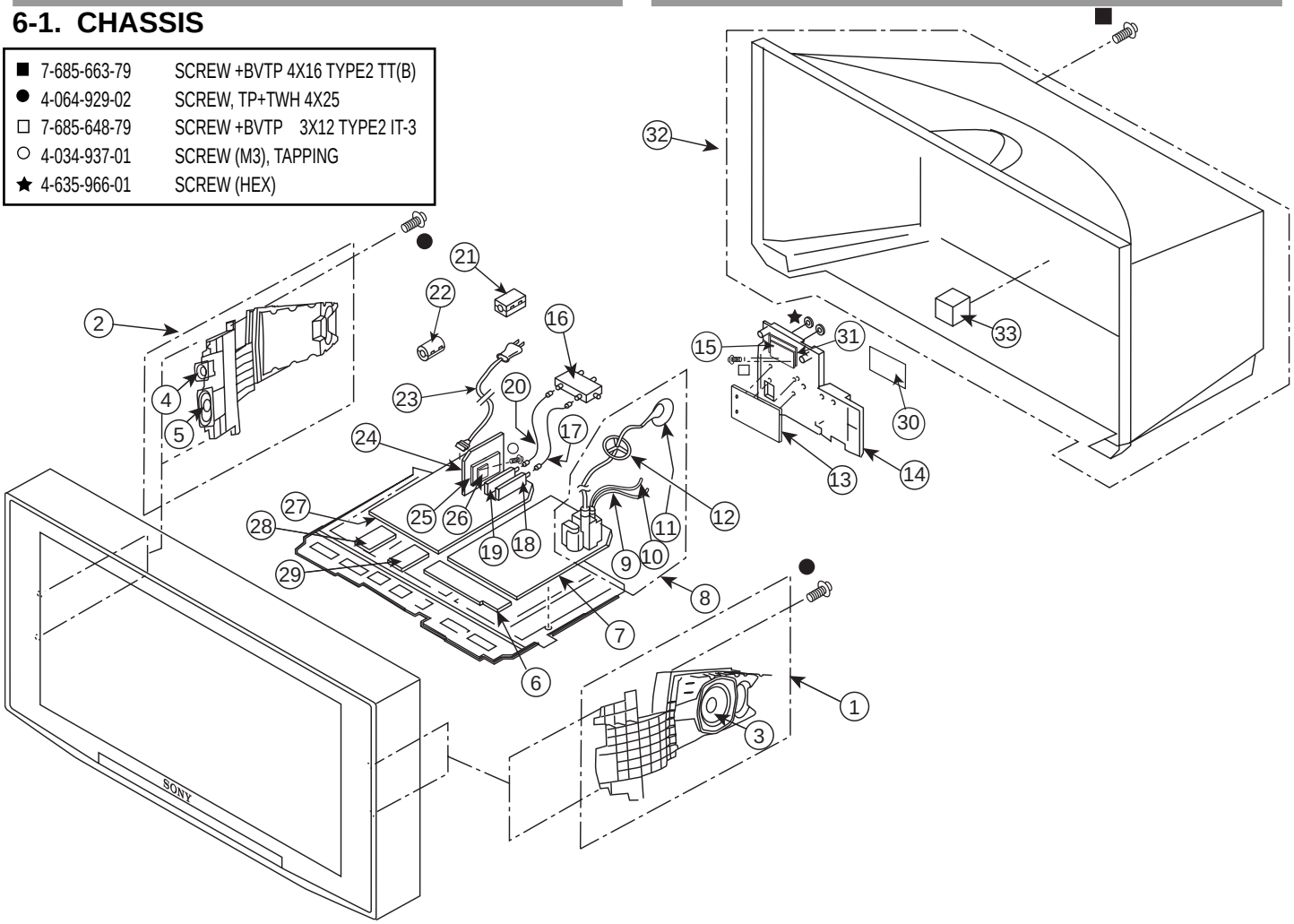
*** Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.**

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS

■	7-685-663-79	SCREW +BVTP 4X16 TYPE2 TT(B)
●	4-064-929-02	SCREW, TP+TWH 4X25
□	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3
○	4-034-937-01	SCREW (M3), TAPPING
★	4-635-966-01	SCREW (HEX)



	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	1	1-825-510-21	SPEAKER BOX (RIGHT)	(3-5)
	2	1-825-510-11	SPEAKER BOX (LEFT)	(3-5)
	3	1-825-405-11	LOUDSPEAKER (12CM)	
	4	1-825-406-11	LOUDSPEAKER (5.2CM)	
	5	1-825-404-11	LOUDSPEAKER (5X9CM)	
*	6	A-1400-709-A	HC BOARD, MOUNTED	
*	7	A-1302-534-A	D BOARD, COMPLETE	
		The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. (See 9-11)		
⚠	8	1-453-387-21	FBT ASSY/NX-6020//M3J4	(9-11)
⚠	9	1-900-805-22	CONNECTOR ASSY, G2 HV	
⚠	10	1-900-805-19	WIRE ASSY, FOCUS HV	
⚠	11	1-251-715-22	CAP ASSY, HIGH-VOLTAGE	
	12	4-084-918-01	HOLDER, HV CABLE	
*	13	A-1300-321-A	U BOARD, COMPLETE	
	14	4-086-882-01	BRACKET, U	
*	15	A-1300-324-A	UD BOARD, COMPLETE	
⚠	16	1-771-787-13	SWITCH, RF ANTENNA	

	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	17	1-557-056-51	CABLE, P-P	
	18	8-598-593-40	TUNER, FSS BTF-WA421	
	19	8-598-594-20	TUNER, FSS BTF-FA421	
*	20	1-555-400-00	CABLE, PIN	
	21	1-500-082-11	CLAMP, SLEEVE FERRITE	
	22	1-500-586-11	FILTER, CLAMP (FERRITE CORE)	
⚠	23	1-769-837-11	CORD, POWER(WITH NOISE FILTER)	
*	24	A-1300-320-A	M BOARD, COMPLETE	
*	25	A-1300-325-A	B BOARD, COMPLETE	
*	26	A-1300-690-A	BM1C BOARD, COMPLETE	
*	27	A-1302-350-A	A BOARD, COMPLETE	
*	28	A-1405-868-A	HB (VAR) BOARD, MOUNTED	
*	29	A-1300-323-A	HM BOARD, COMPLETE	
	30	4-086-884-01	LABEL, TERMINAL	
	31	X-4041-009-1	SHIELD ASSY, UD	
	32	X-4041-716-1	COVER ASSY, REAR	(33)
	33	4-079-345-02	CUSHION,REAR COVER (18X18)	

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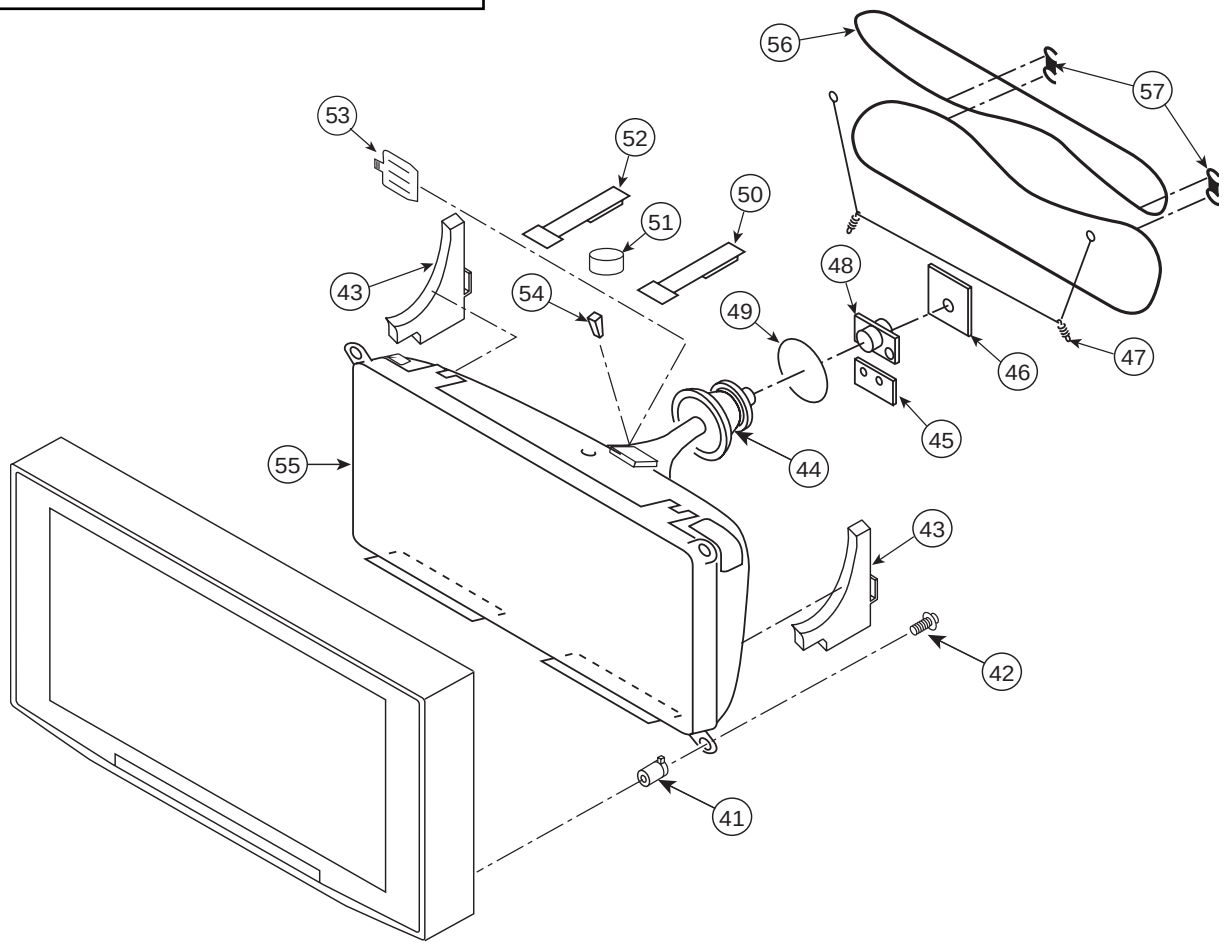
NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-2. PICTURE TUBE

● 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3



	REF. NO.	PART NO.	DESCRIPTION
	41	4-086-434-03	CRT SPACER
	42	4-080-811-01	SCREW TAPPING 7+CROWN WASHER(L40)
	43	X-4038-678-5	SUPPORTER ASSY, CRT
⚠	44	1-451-551-13	DEFLECTION YOKE (Y32VEC-T)
*	45	A-1405-827-A	WX (VAR) BOARD, MOUNTED
*	46	A-1400-562-A	CX BOARD, MOUNTED
	47	4-065-852-01	SPRING, EXTENSION
⚠	48	8-453-018-11	NECK ASSEBMLY NA2918-M
⚠	49	1-451-498-31	COIL, NA ROTATION
	50	4-051-734-21	PIECE B(120), CONV. CORRECT
	51	1-452-032-00	MAGNET,DISC
	52	4-083-414-01	PIECE A(110), CONV CORRECT
	53	4-081-170-01	PLATE, TLH CORRECTION
	54	4-086-199-02	SPACER, DY
⚠	55	8-735-202-05	CRT 32RVE
⚠	56	1-456-474-11	DEGAUSSING COIL
	57	4-065-895-11	HOLDER, DGC

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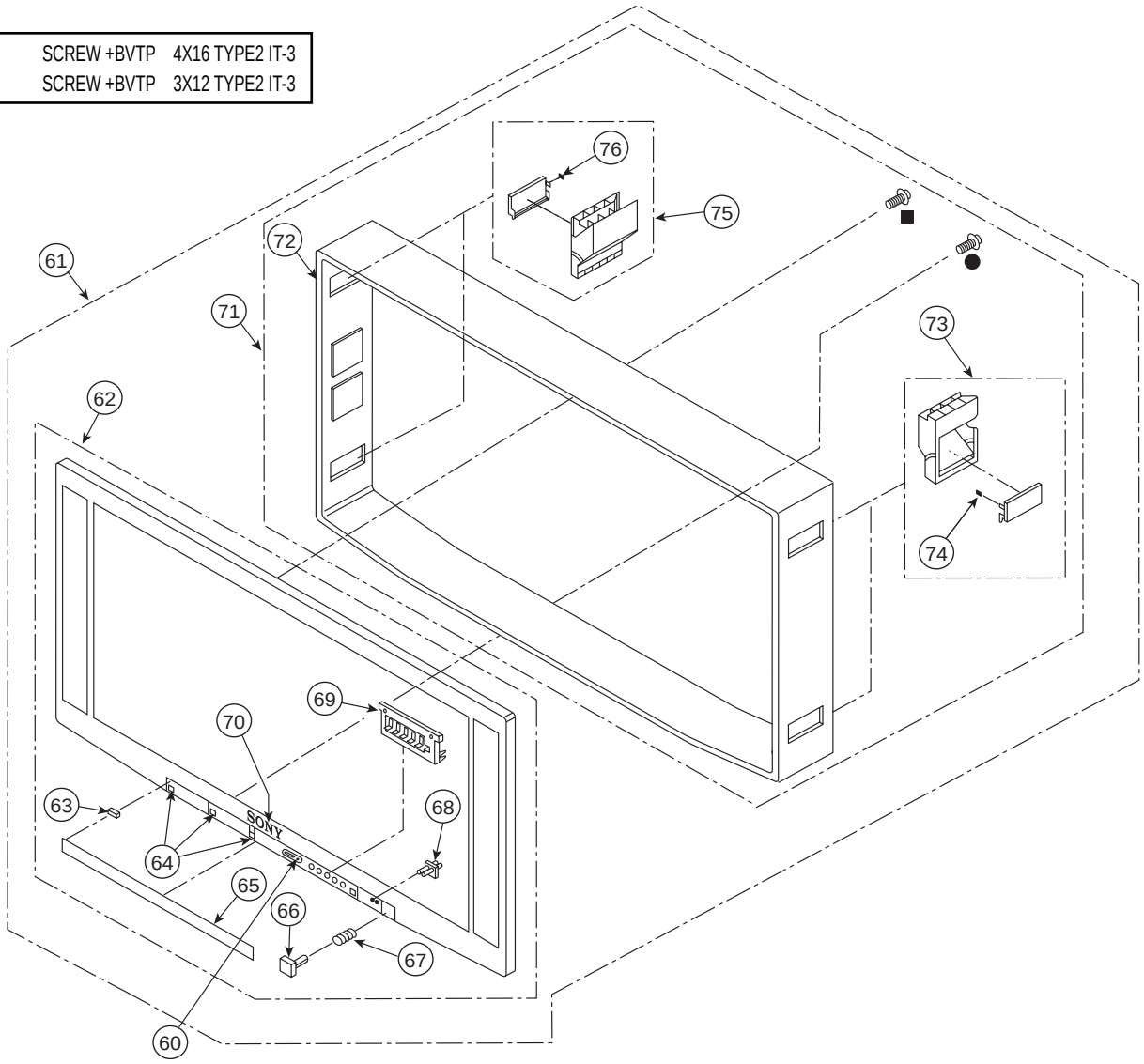
NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-3. BEZNET

■ 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3
● 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3



	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	60	4-087-087-11	GUIDE, MS LED	
	61	X-4041-715-1	BEZNET ASSY	(62-76)
*	62	X-4041-718-1	BEZEL ASSY	(63-70)
	63	4-076-673-03	DAMPER, DOOR	
	64	4-072-630-01	CUSHION, DOOR	
	65	4-089-125-11	DOOR	
	66	4-080-364-41	BUTTON, POWER	
	67	4-042-593-01	SPRING, COMPRESSION	
	68	4-080-361-11	GUIDE, LED	
	69	4-080-362-12	BUTTON, MULTI	
	70	3-704-179-01	EMBLEM (NO.9), SONY	
	71	X-4041-717-1	CABINET ASSY	(72-76)

REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
72	4-080-389-31	CABINET	
73	X-4041-824-1	HANDLE ASSY, RIGHT	(74)
74	4-081-009-01	TAPE (D)	
75	X-4041-823-1	HANDLE ASSY, LEFT	(76)
76	4-081-009-01	TAPE (D)	

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SECTION 7: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol: ⋈ indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

M

RESISTORS
- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When ordering parts by reference number, please include the board name.

M

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

* A-1300-320-A M BOARD, COMPLETE

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2001	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2002	1-126-933-11	ELECT	100µF	20%	16V
C2003	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2004	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C2005	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2006	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2007	1-126-964-11	ELECT	10µF	20%	50V
C2010	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2011	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2012	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2014	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2015	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2017	1-126-964-11	ELECT	10µF	20%	50V
C2019	1-126-964-11	ELECT	10µF	20%	50V
C2020	1-126-964-11	ELECT	10µF	20%	50V
C2022	1-126-964-11	ELECT	10µF	20%	50V
C2024	1-126-933-11	ELECT	100µF	20%	16V
C2025	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2027	1-126-964-11	ELECT	10µF	20%	50V
C2028	1-126-933-11	ELECT	100µF	20%	16V
C2029	1-126-964-11	ELECT	10µF	20%	50V
C2031	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2032	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2033	1-126-933-11	ELECT	100µF	20%	16V
C2034	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2035	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2036	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2037	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2038	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C2039	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2040	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2041	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2042	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2043	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2044	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2045	1-126-933-11	ELECT	100µF	20%	16V
C2046	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2047	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2048	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2049	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C2050	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2051	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2052	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2053	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2054	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2055	1-126-933-11	ELECT	100µF	20%	16V
C2056	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2057	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2058	1-126-963-11	ELECT	4.7µF	20%	50V
C2059	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2060	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2061	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2062	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2063	1-126-963-11	ELECT	4.7µF	20%	50V
C2064	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2065	1-126-933-11	ELECT	100µF	20%	16V
C2066	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2067	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2068	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2069	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2070	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2071	1-126-963-11	ELECT	4.7µF	20%	50V
C2072	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2073	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2074	1-126-933-11	ELECT	100µF	20%	16V
C2075	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2076	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2077	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2078	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2079	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2080	1-126-963-11	ELECT	4.7µF	20%	50V
C2081	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2082	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2083	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2084	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2085	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2086	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2087	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2088	1-216-864-11	SHORT CHIP			
C2089	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2090	1-216-864-11	SHORT CHIP			
C2091	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C2092	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C2096	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2097	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2098	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2099	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2100	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2101	1-126-933-11	ELECT	100µF	20%	16V
C2102	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2103	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2104	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2105	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2106	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2107	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2108	1-126-933-11	ELECT	100µF	20%	16V
C2109	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2110	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2111	1-126-964-11	ELECT	10µF	20%	50V
C2112	1-126-964-11	ELECT	10µF	20%	50V
C2113	1-126-964-11	ELECT	10µF	20%	50V
C2114	1-126-964-11	ELECT	10µF	20%	50V
C2115	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2116	1-126-933-11	ELECT	100µF	20%	16V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2117	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2118	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2120	1-126-964-11	ELECT	10µF	20%	50V
C2121	1-126-964-11	ELECT	10µF	20%	50V
C2122	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2123	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2124	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2126	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2130	1-126-933-11	ELECT	100µF	20%	16V
C2131	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2132	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2134	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2135	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2200	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2201	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2202	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2204	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2205	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2206	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2207	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2208	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2209	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2210	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2211	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2212	1-126-933-11	ELECT	100µF	20%	16V
C2213	1-126-947-11	ELECT	47µF	20%	35V
C2214	1-126-933-11	ELECT	100µF	20%	16V
C2215	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2216	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2217	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2218	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2219	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2220	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2221	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2222	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2223	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2224	1-115-156-11	CERAMIC CHIP	1µF		10V
C2225	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2226	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2227	1-126-933-11	ELECT	100µF	20%	16V
C2228	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2229	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2230	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2231	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2232	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2233	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2234	1-126-933-11	ELECT	100µF	20%	16V
C2235	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2236	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2237	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2238	1-126-933-11	ELECT	100µF	20%	16V
C2239	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2240	1-126-933-11	ELECT	100µF	20%	16V
C2241	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2242	1-126-934-11	ELECT	220µF	20%	16V
C2243	1-126-934-11	ELECT	220µF	20%	16V
C2244	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2245	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2246	1-126-947-11	ELECT	47µF	20%	35V
C2247	1-162-975-11	CERAMIC CHIP	24pF	5%	50V
C2248	1-162-975-11	CERAMIC CHIP	24pF	5%	50V
C2249	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C2250	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C2251	1-164-392-11	CERAMIC CHIP	390pF	5%	50V
C2300	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C2301	1-126-933-11	ELECT	100µF	20%	16V
C2302	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2303	8-719-069-55	DIODE	UDZSTE-175.6B		
C2304	8-719-069-55	DIODE	UDZSTE-175.6B		
C2305	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2306	1-162-920-11	CERAMIC CHIP	27pF	5%	50V
C2307	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2308	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2309	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2310	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2311	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2312	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C2313	1-115-156-11	CERAMIC CHIP	1µF		10V
C2314	8-719-069-55	DIODE	UDZSTE-175.6B		
C2315	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2316	8-719-069-55	DIODE	UDZSTE-175.6B		
C2317	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2318	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2319	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2320	8-719-069-55	DIODE	UDZSTE-175.6B		
C2331	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2347	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2348	1-126-933-11	ELECT	100µF	20%	16V
C2349	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C2352	1-126-933-11	ELECT	100µF	20%	16V
C2353	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2354	1-162-907-11	CERAMIC CHIP	2pF	0.25pF	50V
C2355	1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V
C2358	1-126-935-11	ELECT	470µF	20%	16V
C2359	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2361	1-126-933-11	ELECT	100µF	20%	16V
C2362	1-126-933-11	ELECT	100µF	20%	16V
C2364	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2366	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2367	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2368	1-162-963-11	CERAMIC CHIP	680pF	10%	50V
C2369	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2370	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2371	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2372	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2373	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2374	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2375	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2376	1-162-963-11	CERAMIC CHIP	680pF	10%	50V
C2500	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2501	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2503	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2504	1-126-933-11	ELECT	100µF	20%	16V
C2506	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2508	1-126-933-11	ELECT	100µF	20%	16V
C2510	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2512	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2513	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2514	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2515	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2516	1-126-933-11	ELECT	100µF	20%	16V
C2517	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2518	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2519	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2520	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2521	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2522	1-126-947-11	ELECT	47µF	20%	35V
C2523	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2524	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2525	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2527	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2528	1-162-962-11	CERAMIC CHIP	470pF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2530	1-126-947-11	ELECT	47µF	20%	35V
C2532	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2533	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2534	1-126-947-11	ELECT	47µF	20%	35V
C2535	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C2536	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2538	1-126-947-11	ELECT	47µF	20%	35V
C2539	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2540	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2541	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2542	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2543	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2544	1-126-963-11	ELECT	4.7µF	20%	50V
C2545	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2546	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2548	1-126-947-11	ELECT	47µF	20%	35V
C2549	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2550	1-126-963-11	ELECT	4.7µF	20%	50V
C2551	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2553	1-126-947-11	ELECT	47µF	20%	35V
C2554	1-126-947-11	ELECT	47µF	20%	35V
C2558	1-126-963-11	ELECT	4.7µF	20%	50V
C2559	1-126-933-11	ELECT	100µF	20%	16V
C2560	1-126-947-11	ELECT	47µF	20%	35V
C2561	1-126-963-11	ELECT	4.7µF	20%	50V
C2563	1-126-961-11	ELECT	2.2µF	20%	50V
C2564	1-126-961-11	ELECT	2.2µF	20%	50V
C2565	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2566	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2569	1-126-961-11	ELECT	2.2µF	20%	50V
C2570	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2571	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2572	1-126-960-11	ELECT	1µF	20%	50V
C2574	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2575	1-126-960-11	ELECT	1µF	20%	50V
C2579	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2582	1-126-933-11	ELECT	100µF	20%	16V
C2584	1-126-933-11	ELECT	100µF	20%	16V

CONNECTOR

CN2006	1-793-174-11	SOCKET,PC CONNECTOR (PC BOARD)		
* CN2301	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)		10P
* CN2304	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)		11P
CN2305	1-770-721-11	CONNECTOR, BOARD TO BOARD		4P

REF. NO.	PART NO.	DESCRIPTION	VALUES

DIODE

D2302	8-719-914-44	DIODE	DAP202K
D2303	8-719-914-44	DIODE	DAP202K
D2310	8-719-083-57	DIODE	UDZSTE-173.6B
D2500	8-719-404-50	DIODE	MA111-TX
D2501	8-719-404-50	DIODE	MA111-TX
D2502	8-719-404-50	DIODE	MA111-TX
D2503	8-719-404-50	DIODE	MA111-TX
D2504	8-719-404-50	DIODE	MA111-TX

FERRITE BEAD

FB2001	1-414-229-11	FERRITE	0µH
FB2002	1-414-229-11	FERRITE	0µH
FB2200	1-414-229-11	FERRITE	0µH
FB2500	1-216-864-11	SHORT CHIP	
FB2501	1-216-864-11	SHORT CHIP	
FB2503	1-216-864-11	SHORT CHIP	
FB2504	1-216-864-11	SHORT CHIP	
FB2505	1-414-229-11	FERRITE	0µH
FB2507	1-414-229-11	FERRITE	0µH
FB2508	1-414-229-11	FERRITE	0µH
FB2509	1-216-864-11	SHORT CHIP	
FB2510	1-414-229-11	FERRITE	0µH
FB2511	1-216-864-11	SHORT CHIP	
FB2512	1-414-229-11	FERRITE	0µH
FB2513	1-216-864-11	SHORT CHIP	
FB2514	1-216-864-11	SHORT CHIP	
FB2515	1-414-229-11	FERRITE	0µH
FB2516	1-414-229-11	FERRITE	0µH
FB2517	1-414-229-11	FERRITE	0µH
FB2518	1-414-229-11	FERRITE	0µH
FB2519	1-414-229-11	FERRITE	0µH
FB2520	1-216-864-11	SHORT CHIP	
FB2521	1-216-864-11	SHORT CHIP	
FB2522	1-414-229-11	FERRITE	0µH

FILTER

FL2001	1-239-848-21	FILTER, LOW PASS	
FL2002	1-239-848-21	FILTER, LOW PASS	
FL2003	1-239-848-21	FILTER, LOW PASS	
FL2201	1-239-848-21	FILTER, LOW PASS	
FL2202	1-239-848-21	FILTER, LOW PASS	

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REF. NO.	PART NO.	DESCRIPTION	VALUES
FL2203	1-239-848-21	FILTER, LOW PASS	
FL2204	1-239-848-21	FILTER, LOW PASS	
	IC		
IC2001	8-752-394-69	IC	CXD2073Q-T4
IC2004	8-752-102-21	IC	CXA2103AQ
IC2005	8-752-102-21	IC	CXA2103AQ
IC2006	8-752-103-44	IC	CXA2171Q
IC2008	8-759-448-68	IC	NJM2283V-TE1
IC2009	8-759-549-07	IC	SN74LV157APWR
IC2010	8-759-549-07	IC	SN74LV157APWR
IC2200	6-700-960-01	IC	UPD64083GF-3BA
IC2201	6-700-399-01	IC	UPC2925T-E1
IC2300	6-802-655-01	IC	M306V7MG-050FP
IC2301	6-801-375-01	IC	PST9129NL
IC2302	6-704-573-01	IC	M24C32-WMN6T(B)
IC2305	8-759-641-26	IC	NJM2391DL1-33(TE1)
IC2500	8-759-394-57	IC	PST593C-MMP-4P
IC2501	6-801-750-01	IC	TC94A04F-014
IC2502	8-759-331-71	IC	NJM4558E(TE2)
IC2504	8-759-642-22	IC	UPC29M05T-E2
	CHIP CONDUCTOR		
JR2001	1-216-864-11	SHORT CHIP	
JR2002	1-216-864-11	SHORT CHIP	
JR2003	1-216-864-11	SHORT CHIP	
JR2004	1-216-864-11	SHORT CHIP	
JR2005	1-216-864-11	SHORT CHIP	
JR2010	1-216-864-11	SHORT CHIP	
JR2011	1-216-864-11	SHORT CHIP	
JR2012	1-216-864-11	SHORT CHIP	
JR2013	1-216-864-11	SHORT CHIP	
JR2014	1-216-864-11	SHORT CHIP	
JR2015	1-216-864-11	SHORT CHIP	
	COIL		
L2001	1-469-555-21	INDUCTOR	10µH
L2003	1-469-555-21	INDUCTOR	10µH
L2004	1-469-555-21	INDUCTOR	10µH
L2005	1-469-555-21	INDUCTOR	10µH
L2006	1-469-555-21	INDUCTOR	10µH
L2007	1-469-555-21	INDUCTOR	10µH
L2008	1-469-555-21	INDUCTOR	10µH
L2009	1-469-555-21	INDUCTOR	10µH
L2010	1-469-555-21	INDUCTOR	10µH
L2011	1-469-555-21	INDUCTOR	10µH
L2012	1-469-555-21	INDUCTOR	10µH
L2013	1-469-555-21	INDUCTOR	10µH
L2200	1-469-555-21	INDUCTOR	10µH
L2201	1-469-555-21	INDUCTOR	10µH
L2202	1-469-555-21	INDUCTOR	10µH
L2203	1-216-001-00	RES-CHIP	10 5% 1/10W
L2204	1-469-555-21	INDUCTOR	10µH
L2205	1-216-001-00	RES-CHIP	10 5% 1/10W
L2206	1-469-555-21	INDUCTOR	10µH
L2207	1-469-553-21	INDUCTOR	4.7µH
L2303	1-469-555-21	INDUCTOR	10µH
L2501	1-412-537-31	INDUCTOR	100µH
L2502	1-216-295-91	SHORT CHIP	
	TRANSISTOR		
Q2001	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2002	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2003	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2004	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2005	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2006	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2007	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2009	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2010	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2012	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2013	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2014	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2015	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2016	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2018	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2019	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2200	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2201	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2202	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2203	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2204	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2205	8-729-422-27	TRANSISTOR	2SD601A-Q

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REF. NO.	PART NO.	DESCRIPTION	VALUES
Q2206	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2207	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2208	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2209	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2210	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2211	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2212	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2213	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2214	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2215	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2216	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2301	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2302	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2303	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2304	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2308	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2311	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2312	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2313	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2314	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2315	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2316	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2317	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2318	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2320	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2321	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2322	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2323	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2324	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2500	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2501	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2503	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2504	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2505	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2506	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2507	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2508	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2509	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2510	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2511	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2512	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2513	8-729-422-27	TRANSISTOR	2SD601A-Q

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR				
R2001	1-216-809-11	METAL CHIP	100	5%	1/10W
R2002	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2003	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2004	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2005	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2007	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R2008	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R2009	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2010	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2011	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2012	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2013	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2014	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2015	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
R2016	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2017	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2018	1-216-812-11	METAL CHIP	180	5%	1/10W
R2020	1-216-811-11	METAL CHIP	150	5%	1/10W
R2022	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R2023	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2024	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2025	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R2026	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R2027	1-216-864-11	SHORT CHIP			
R2030	1-216-817-11	METAL CHIP	470	5%	1/10W
R2032	1-216-817-11	METAL CHIP	470	5%	1/10W
R2035	1-216-817-11	METAL CHIP	470	5%	1/10W
R2036	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2040	1-216-817-11	METAL CHIP	470	5%	1/10W
R2041	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2045	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2046	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2048	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R2049	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R2050	1-216-817-11	METAL CHIP	470	5%	1/10W
R2051	1-216-817-11	METAL CHIP	470	5%	1/10W
R2052	1-216-835-11	METAL CHIP	15K	5%	1/10W
R2053	1-216-864-11	SHORT CHIP			
R2054	1-216-835-11	METAL CHIP	15K	5%	1/10W
R2055	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2056	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2057	1-216-809-11	METAL CHIP	100	5%	1/10W
R2058	1-216-809-11	METAL CHIP	100	5%	1/10W
R2059	1-216-809-11	METAL CHIP	100	5%	1/10W
R2061	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R2064	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R2067	1-216-809-11	METAL CHIP	100	5%	1/10W
R2069	1-216-864-11	SHORT CHIP			
R2071	1-216-864-11	SHORT CHIP			
R2072	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2073	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2074	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2075	1-216-864-11	SHORT CHIP			
R2076	1-216-864-11	SHORT CHIP			
R2077	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2081	1-216-809-11	METAL CHIP	100	5%	1/10W
R2082	1-216-809-11	METAL CHIP	100	5%	1/10W
R2083	1-216-851-11	METAL CHIP	330K	5%	1/10W
R2086	1-216-818-11	METAL CHIP	560	5%	1/10W
R2087	1-216-818-11	METAL CHIP	560	5%	1/10W
R2091	1-216-809-11	METAL CHIP	100	5%	1/10W
R2092	1-216-818-11	METAL CHIP	560	5%	1/10W
R2093	1-216-818-11	METAL CHIP	560	5%	1/10W
R2094	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R2095	1-216-864-11	SHORT CHIP			
R2097	1-216-809-11	METAL CHIP	100	5%	1/10W
R2099	1-216-809-11	METAL CHIP	100	5%	1/10W
R2101	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2103	1-216-809-11	METAL CHIP	100	5%	1/10W
R2105	1-216-809-11	METAL CHIP	100	5%	1/10W
R2107	1-216-809-11	METAL CHIP	100	5%	1/10W
R2110	1-216-818-11	METAL CHIP	560	5%	1/10W
R2111	1-216-818-11	METAL CHIP	560	5%	1/10W
R2112	1-216-809-11	METAL CHIP	100	5%	1/10W
R2113	1-216-809-11	METAL CHIP	100	5%	1/10W
R2114	1-216-805-11	METAL CHIP	47	5%	1/10W
R2115	1-216-805-11	METAL CHIP	47	5%	1/10W
R2116	1-216-805-11	METAL CHIP	47	5%	1/10W
R2118	1-216-809-11	METAL CHIP	100	5%	1/10W
R2119	1-216-809-11	METAL CHIP	100	5%	1/10W
R2120	1-216-809-11	METAL CHIP	100	5%	1/10W
R2123	1-216-809-11	METAL CHIP	100	5%	1/10W
R2124	1-216-809-11	METAL CHIP	100	5%	1/10W
R2125	1-216-809-11	METAL CHIP	100	5%	1/10W
R2126	1-216-809-11	METAL CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2131	1-216-809-11	METAL CHIP	100	5%	1/10W
R2133	1-216-864-11	SHORT CHIP			
R2201	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2202	1-216-809-11	METAL CHIP	100	5%	1/10W
R2203	1-216-809-11	METAL CHIP	100	5%	1/10W
R2204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2205	1-216-864-11	SHORT CHIP			
R2206	1-216-864-11	SHORT CHIP			
R2207	1-216-809-11	METAL CHIP	100	5%	1/10W
R2208	1-216-809-11	METAL CHIP	100	5%	1/10W
R2209	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2210	1-216-818-11	METAL CHIP	560	5%	1/10W
R2211	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2212	1-216-818-11	METAL CHIP	560	5%	1/10W
R2213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2214	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2215	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2216	1-216-817-11	METAL CHIP	470	5%	1/10W
R2217	1-216-817-11	METAL CHIP	470	5%	1/10W
R2218	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2219	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2221	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2223	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2224	1-216-809-11	METAL CHIP	100	5%	1/10W
R2225	1-216-818-11	METAL CHIP	560	5%	1/10W
R2226	1-216-817-11	METAL CHIP	470	5%	1/10W
R2227	1-216-816-11	METAL CHIP	390	5%	1/10W
R2228	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2229	1-216-849-11	METAL CHIP	220K	5%	1/10W
R2230	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2231	1-216-819-11	METAL CHIP	680	5%	1/10W
R2232	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2233	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2234	1-216-820-11	METAL CHIP	820	5%	1/10W
R2235	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2236	1-216-813-11	METAL CHIP	220	5%	1/10W
R2237	1-216-820-11	METAL CHIP	820	5%	1/10W
R2238	1-216-819-11	METAL CHIP	680	5%	1/10W
R2239	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2240	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2241	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2242	1-218-680-11	METAL CHIP	330	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2243	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2244	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2245	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2246	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2247	1-216-805-11	METAL CHIP	47	5%	1/10W
R2248	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2249	1-216-805-11	METAL CHIP	47	5%	1/10W
R2250	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2251	1-216-818-11	METAL CHIP	560	5%	1/10W
R2252	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2253	1-216-809-11	METAL CHIP	100	5%	1/10W
R2254	1-216-817-11	METAL CHIP	470	5%	1/10W
R2255	1-216-817-11	METAL CHIP	470	5%	1/10W
R2256	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2257	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2258	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2259	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2260	1-216-840-11	METAL CHIP	39K	5%	1/10W
R2261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2298	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2299	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2300	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2301	1-216-809-11	METAL CHIP	100	5%	1/10W
R2302	1-216-809-11	METAL CHIP	100	5%	1/10W
R2303	1-216-809-11	METAL CHIP	100	5%	1/10W
R2304	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2305	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2307	1-216-809-11	METAL CHIP	100	5%	1/10W
R2308	1-216-809-11	METAL CHIP	100	5%	1/10W
R2309	1-216-809-11	METAL CHIP	100	5%	1/10W
R2311	1-216-809-11	METAL CHIP	100	5%	1/10W
R2312	1-216-809-11	METAL CHIP	100	5%	1/10W
R2313	1-216-809-11	METAL CHIP	100	5%	1/10W
R2314	1-216-809-11	METAL CHIP	100	5%	1/10W
R2315	1-216-809-11	METAL CHIP	100	5%	1/10W
R2316	1-216-809-11	METAL CHIP	100	5%	1/10W
R2317	1-216-809-11	METAL CHIP	100	5%	1/10W
R2318	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2319	1-216-809-11	METAL CHIP	100	5%	1/10W
R2320	1-216-809-11	METAL CHIP	100	5%	1/10W
R2321	1-216-809-11	METAL CHIP	100	5%	1/10W
R2322	1-216-809-11	METAL CHIP	100	5%	1/10W
R2323	1-216-833-11	METAL CHIP	10K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2324	1-216-809-11	METAL CHIP	100	5%	1/10W
R2325	1-216-864-11	SHORT CHIP			
R2326	1-216-809-11	METAL CHIP	100	5%	1/10W
R2327	1-216-809-11	METAL CHIP	100	5%	1/10W
R2328	1-216-809-11	METAL CHIP	100	5%	1/10W
R2329	1-216-815-11	METAL CHIP	330	5%	1/10W
R2330	1-216-817-11	METAL CHIP	470	5%	1/10W
R2333	1-216-809-11	METAL CHIP	100	5%	1/10W
R2335	1-216-820-11	METAL CHIP	820	5%	1/10W
R2336	1-216-809-11	METAL CHIP	100	5%	1/10W
R2337	1-216-809-11	METAL CHIP	100	5%	1/10W
R2338	1-216-864-11	SHORT CHIP			
R2339	1-216-809-11	METAL CHIP	100	5%	1/10W
R2340	1-216-809-11	METAL CHIP	100	5%	1/10W
R2341	1-216-809-11	METAL CHIP	100	5%	1/10W
R2342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2343	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2344	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2345	1-216-809-11	METAL CHIP	100	5%	1/10W
R2346	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
R2347	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2348	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2349	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2350	1-216-809-11	METAL CHIP	100	5%	1/10W
R2351	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2352	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2353	1-216-809-11	METAL CHIP	100	5%	1/10W
R2354	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2355	1-216-809-11	METAL CHIP	100	5%	1/10W
R2356	1-216-805-11	METAL CHIP	47	5%	1/10W
R2357	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2358	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2359	1-216-805-11	METAL CHIP	47	5%	1/10W
R2360	1-216-809-11	METAL CHIP	100	5%	1/10W
R2361	1-216-864-11	SHORT CHIP			
R2362	1-216-805-11	METAL CHIP	47	5%	1/10W
R2363	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2364	1-216-809-11	METAL CHIP	100	5%	1/10W
R2365	1-216-809-11	METAL CHIP	100	5%	1/10W
R2366	1-216-864-11	SHORT CHIP			
R2367	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2368	1-216-809-11	METAL CHIP	100	5%	1/10W
R2369	1-216-805-11	METAL CHIP	47	5%	1/10W
R2370	1-216-833-11	METAL CHIP	10K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2371	1-216-809-11	METAL CHIP	100	5%	1/10W
R2372	1-216-809-11	METAL CHIP	100	5%	1/10W
R2373	1-216-809-11	METAL CHIP	100	5%	1/10W
R2374	1-216-864-11	SHORT CHIP			
R2375	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2376	1-216-805-11	METAL CHIP	47	5%	1/10W
R2377	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2378	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2379	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2380	1-216-809-11	METAL CHIP	100	5%	1/10W
R2381	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2383	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2384	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2386	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2387	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2388	1-216-815-11	METAL CHIP	330	5%	1/10W
R2389	1-216-815-11	METAL CHIP	330	5%	1/10W
R2400	1-216-811-11	METAL CHIP	150	5%	1/10W
R2401	1-216-811-11	METAL CHIP	150	5%	1/10W
R2402	1-216-811-11	METAL CHIP	150	5%	1/10W
R2419	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2422	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2425	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2428	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2434	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2435	1-216-820-11	METAL CHIP	820	5%	1/10W
R2436	1-216-820-11	METAL CHIP	820	5%	1/10W
R2437	1-216-809-11	METAL CHIP	100	5%	1/10W
R2438	1-216-820-11	METAL CHIP	820	5%	1/10W
R2440	1-216-864-11	SHORT CHIP			
R2441	1-216-864-11	SHORT CHIP			
R2450	1-216-864-11	SHORT CHIP			
R2452	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2454	1-216-809-11	METAL CHIP	100	5%	1/10W
R2455	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2459	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2460	1-216-809-11	METAL CHIP	100	5%	1/10W
R2463	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2464	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2466	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2467	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2469	1-216-809-11	METAL CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2470	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2471	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2472	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2473	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2474	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2480	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2481	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2483	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2484	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2485	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2486	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2487	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2488	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2489	1-216-817-11	METAL CHIP	470	5%	1/10W
R2491	1-216-817-11	METAL CHIP	470	5%	1/10W
R2492	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2493	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2494	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2500	1-216-809-11	METAL CHIP	100	5%	1/10W
R2501	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2502	1-216-864-11	SHORT CHIP			
R2503	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2506	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2510	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2511	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2513	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2514	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2515	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2516	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2517	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2518	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2519	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2520	1-216-864-11	SHORT CHIP			
R2521	1-216-864-11	SHORT CHIP			
R2522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2523	1-216-813-11	METAL CHIP	220	5%	1/10W
R2524	1-216-809-11	METAL CHIP	100	5%	1/10W
R2525	1-216-813-11	METAL CHIP	220	5%	1/10W
R2526	1-216-864-11	SHORT CHIP			
R2528	1-216-809-11	METAL CHIP	100	5%	1/10W
R2529	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2530	1-216-809-11	METAL CHIP	100	5%	1/10W
R2531	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2532	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2533	1-216-864-11	SHORT CHIP			
R2534	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2535	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2538	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2539	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2540	1-216-864-11	SHORT CHIP			
R2541	1-216-864-11	SHORT CHIP			
R2542	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2543	1-216-864-11	SHORT CHIP			
R2546	1-216-813-11	METAL CHIP	220	5%	1/10W
R2547	1-216-813-11	METAL CHIP	220	5%	1/10W
R2548	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2549	1-216-813-11	METAL CHIP	220	5%	1/10W
R2550	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2551	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2552	1-216-809-11	METAL CHIP	100	5%	1/10W
R2553	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2554	1-216-809-11	METAL CHIP	100	5%	1/10W
R2555	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2556	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2558	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2561	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2562	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2564	1-216-817-11	METAL CHIP	470	5%	1/10W
R2565	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2566	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2567	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2568	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2569	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2570	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2571	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2572	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2573	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2574	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2575	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2576	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2577	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2578	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2579	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2580	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2581	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2582	1-216-809-11	METAL CHIP	100	5%	1/10W
R2584	1-216-809-11	METAL CHIP	100	5%	1/10W
R2585	1-216-864-11	SHORT CHIP			
R2593	1-216-864-11	SHORT CHIP			
R2603	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2604	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2605	1-216-864-11	SHORT CHIP			
R2607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2608	1-216-833-11	METAL CHIP	10K	5%	1/10W

CRYSTAL

X2001	1-567-505-11	OSCILLATOR, CRYSTAL	
X2002	1-567-505-11	OSCILLATOR, CRYSTAL	
X2003	1-781-282-11	VIBRATOR, CERAMIC	
X2200	1-767-606-11	VIBRATOR, CRYSTAL	
X2300	1-795-572-11	VIBRATOR, CRYSTAL	
X2500	1-767-639-21	VIBRATOR, CRYSTAL	

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*	**A-1300-321-A**	**U BOARD, COMPLETE**	

CAPACITOR

C1501	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1502	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1503	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1504	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1505	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1506	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1507	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1508	1-126-960-11	ELECT	1µF	20%	50V
C1509	1-126-960-11	ELECT	1µF	20%	50V
C1510	1-126-960-11	ELECT	1µF	20%	50V
C1511	1-126-960-11	ELECT	1µF	20%	50V
C1512	1-126-960-11	ELECT	1µF	20%	50V
C1513	1-126-960-11	ELECT	1µF	20%	50V
C1519	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C1520	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C1521	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C1522	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C1523	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1524	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1525	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1526	1-126-964-11	ELECT	10µF	20%	50V
C1527	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1528	1-126-933-11	ELECT	100µF	20%	16V
C1529	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1530	1-126-964-11	ELECT	10µF	20%	50V
C1531	1-126-941-11	ELECT	470µF	20%	25V
C1532	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1533	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C1534	1-126-933-11	ELECT	100µF	20%	16V
C1535	1-126-933-11	ELECT	100µF	20%	16V
C1536	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1537	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1538	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1539	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1540	1-126-933-11	ELECT	100µF	20%	16V
C1541	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C1542	1-249-405-11	CARBON	100	5%	1/4W
C1544	1-249-405-11	CARBON	100	5%	1/4W
C1545	1-126-933-11	ELECT	100µF	20%	16V
C1546	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1548	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1550	1-126-960-11	ELECT	1µF	20%	50V
C1551	1-126-960-11	ELECT	1µF	20%	50V
C1552	1-126-960-11	ELECT	1µF	20%	50V
C1553	1-126-960-11	ELECT	1µF	20%	50V
C1554	1-126-960-11	ELECT	1µF	20%	50V
C1555	1-126-960-11	ELECT	1µF	20%	50V
C1556	1-126-933-11	ELECT	100µF	20%	16V
C1557	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1558	1-126-933-11	ELECT	100µF	20%	16V
C1559	1-126-933-11	ELECT	100µF	20%	16V
C1560	1-126-933-11	ELECT	100µF	20%	16V
C1561	1-126-933-11	ELECT	100µF	20%	16V
C1562	1-126-933-11	ELECT	100µF	20%	16V
C1563	1-126-933-11	ELECT	100µF	20%	16V

	REF. NO.	PART NO.	DESCRIPTION	VALUES
		CONNECTOR		
*	CN1501	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P
	CN1502	1-793-173-11	PIN, PC CONNECTOR(PC BOARD)	50P
	CN1503	1-793-419-11	CONNECTOR, BOARD TO BOARD	4P
		DIODE		
	D1501	8-719-977-28	DIODE	DTZ10B
	D1502	8-719-977-28	DIODE	DTZ10B
	D1503	8-719-977-28	DIODE	DTZ10B
	D1504	8-719-977-28	DIODE	DTZ10B
	D1505	8-719-977-28	DIODE	DTZ10B
	D1506	8-719-977-28	DIODE	DTZ10B
	D1507	8-719-977-28	DIODE	DTZ10B
	D1508	8-719-977-28	DIODE	DTZ10B
	D1509	8-719-977-28	DIODE	DTZ10B
	D1510	8-719-977-28	DIODE	DTZ10B
	D1511	8-719-977-28	DIODE	DTZ10B
	D1512	8-719-977-28	DIODE	DTZ10B
	D1513	8-719-977-28	DIODE	DTZ10B
	D1514	8-719-977-28	DIODE	DTZ10B
	D1515	8-719-977-28	DIODE	DTZ10B
	D1516	8-719-977-28	DIODE	DTZ10B
	D1517	8-719-977-28	DIODE	DTZ10B
	D1518	8-719-914-43	DIODE	DAN202K
	D1519	8-719-977-28	DIODE	DTZ10B
	D1520	8-719-977-28	DIODE	DTZ10B
	D1521	8-719-977-28	DIODE	DTZ10B
	D1522	8-719-977-28	DIODE	DTZ10B
	D1523	8-719-977-28	DIODE	DTZ10B
	D1524	8-719-977-28	DIODE	DTZ10B
	D1525	8-719-977-28	DIODE	DTZ10B
	D1526	8-719-977-28	DIODE	DTZ10B
	D1527	8-719-977-28	DIODE	DTZ10B
	D1528	8-719-977-28	DIODE	DTZ10B
	D1529	8-719-977-28	DIODE	DTZ10B
	D1530	8-719-977-28	DIODE	DTZ10B
	D1531	8-719-977-28	DIODE	DTZ10B
	D1532	8-719-977-28	DIODE	DTZ10B
	D1533	8-719-977-28	DIODE	DTZ10B
	D1534	8-719-977-28	DIODE	DTZ10B
	D1535	8-719-977-28	DIODE	DTZ10B

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REF. NO.	PART NO.	DESCRIPTION	VALUES
	IC		
IC1502	8-752-080-04	IC	CXA2069Q
IC1505	8-759-548-56	IC	M52055FP
	JACK		
J1501	1-573-967-12	BLOCK, (S) TERMINAL	
J1502	1-750-516-21	JACK BLOCK, PIN	2P
J1503	1-750-517-21	JACK BLOCK, PIN	3P
J1504	1-750-517-21	JACK BLOCK, PIN	3P
J1505	1-764-143-11	JACK	
J1506	1-764-143-11	JACK	
J1507	1-750-516-21	JACK BLOCK, PIN	2P
J1508	1-815-015-11	JACK BLOCK, PIN	
J1509	1-815-015-11	JACK BLOCK, PIN	
	COIL		
L1502	1-469-555-21	INDUCTOR	10µH
L1503	1-469-555-21	INDUCTOR	10µH
L1504	1-469-555-21	INDUCTOR	10µH
L1505	1-469-555-21	INDUCTOR	10µH
L1506	1-469-555-21	INDUCTOR	10µH
	TRANSISTOR		
Q1501	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1503	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1505	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1506	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1507	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1508	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1509	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1510	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1511	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1512	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1513	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1515	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1516	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1518	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1519	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1520	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1521	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1522	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1523	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1524	8-729-422-27	TRANSISTOR	2SD601A-Q
	RESISTOR		
R1501	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1502	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1503	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1504	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1505	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1506	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1507	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1508	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1509	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1510	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1511	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1512	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1513	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1514	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1520	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R1521	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R1522	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R1523	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R1524	1-216-809-11	METAL CHIP	100 5% 1/10W
R1525	1-216-809-11	METAL CHIP	100 5% 1/10W
R1526	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1527	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1530	1-216-809-11	METAL CHIP	100 5% 1/10W
R1531	1-216-809-11	METAL CHIP	100 5% 1/10W
R1532	1-216-809-11	METAL CHIP	100 5% 1/10W
R1533	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R1534	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1535	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1536	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1537	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1538	1-216-806-11	METAL CHIP	56 5% 1/10W
R1539	1-216-805-11	METAL CHIP	47 5% 1/10W
R1540	1-216-809-11	METAL CHIP	100 5% 1/10W
R1541	1-216-809-11	METAL CHIP	100 5% 1/10W
R1542	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R1543	1-216-809-11	METAL CHIP	100 5% 1/10W
R1544	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R1545	1-216-830-11	METAL CHIP	5.6K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1546	1-216-809-11	METAL CHIP	100	5%	1/10W
R1547	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1548	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1549	1-216-809-11	METAL CHIP	100	5%	1/10W
R1550	1-216-809-11	METAL CHIP	100	5%	1/10W
R1551	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1552	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1554	1-216-809-11	METAL CHIP	100	5%	1/10W
R1555	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1556	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1557	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1559	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1562	1-216-809-11	METAL CHIP	100	5%	1/10W
R1563	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1565	1-216-809-11	METAL CHIP	100	5%	1/10W
R1566	1-216-809-11	METAL CHIP	100	5%	1/10W
R1567	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1568	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1569	1-216-809-11	METAL CHIP	100	5%	1/10W
R1570	1-216-809-11	METAL CHIP	100	5%	1/10W
R1571	1-216-809-11	METAL CHIP	100	5%	1/10W
R1572	1-216-809-11	METAL CHIP	100	5%	1/10W
R1573	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1574	1-216-809-11	METAL CHIP	100	5%	1/10W
R1575	1-216-809-11	METAL CHIP	100	5%	1/10W
R1576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1577	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1578	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1579	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1580	1-216-809-11	METAL CHIP	100	5%	1/10W
R1581	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1582	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1583	1-216-809-11	METAL CHIP	100	5%	1/10W
R1584	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1585	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1586	1-216-813-11	METAL CHIP	220	5%	1/10W
R1587	1-216-809-11	METAL CHIP	100	5%	1/10W
R1588	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1589	1-216-813-11	METAL CHIP	220	5%	1/10W
R1590	1-216-809-11	METAL CHIP	100	5%	1/10W
R1591	1-216-813-11	METAL CHIP	220	5%	1/10W
R1592	1-216-833-11	METAL CHIP	10K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1593	1-216-809-11	METAL CHIP	100	5%	1/10W
R1594	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1595	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1596	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1597	1-216-809-11	METAL CHIP	100	5%	1/10W
R1598	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1600	1-216-809-11	METAL CHIP	100	5%	1/10W
R1604	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1607	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1608	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1609	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1610	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1612	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1613	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1615	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1616	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1617	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1618	1-216-864-11	SHORT CHIP			
R1619	1-216-809-11	METAL CHIP	100	5%	1/10W
R1620	1-216-809-11	METAL CHIP	100	5%	1/10W
R1621	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1622	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1623	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1624	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1625	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1626	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1627	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1628	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1629	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1630	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1631	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1632	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1635	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1636	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1637	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1645	1-216-809-11	METAL CHIP	100	5%	1/10W
R1646	1-216-803-11	METAL CHIP	33	5%	1/10W
R1647	1-216-803-11	METAL CHIP	33	5%	1/10W
R1648	1-216-803-11	METAL CHIP	33	5%	1/10W
R1649	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1650	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1651	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1652	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1653	1-218-676-11	METAL CHIP	220	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1654	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1655	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1656	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1657	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1658	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1659	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1660	1-218-676-11	METAL CHIP	220	0.50%	1/10W
		VARISTOR			
VD1512	1-803-974-21	VARISTOR, CHIP	(1608)		
VD1513	1-803-974-21	VARISTOR, CHIP	(1608)		
VD1516	1-803-974-21	VARISTOR, CHIP	(1608)		

HM

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

*	**A-1300-323-A**	**HM BOARD, COMPLETE**			
		CAPACITOR			
C7205	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7206	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7208	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7209	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7210	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7212	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7213	1-124-778-00	ELECT CHIP	22µF	20%	6.3V
C7214	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C7215	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C7216	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C7217	1-124-778-00	ELECT CHIP	22µF	20%	6.3V
C7219	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7220	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
		CONNECTOR			
* CN7201	1-816-402-12	CONNECTOR, MEMORY STICK			
* CN7202	1-816-124-11	PIN, CONNECTOR (FOR PWB)	18P		
CN7205	1-695-915-11	TAB (CONTACT)			
		DIODE			
D7201	8-719-800-76	DIODE	1SS226		
D7202	8-719-800-76	DIODE	1SS226		
D7203	8-719-800-76	DIODE	1SS226		

REF. NO.	PART NO.	DESCRIPTION	VALUES		
D7204	8-719-800-76	DIODE	1SS226		
D7205	8-719-800-76	DIODE	1SS226		
D7206	8-719-800-76	DIODE	1SS226		
D7207	8-719-800-76	DIODE	1SS226		
D7208	8-719-800-76	DIODE	1SS226		
D7209	6-500-182-01	DIODE	L1503CB/ID		
D7210	8-719-083-58	DIODE	UDZSTE-173.9B		
D7211	8-719-083-58	DIODE	UDZSTE-173.9B		
D7212	8-719-800-76	DIODE	1SS226		
D7213	8-719-800-76	DIODE	1SS226		
D7214	8-719-800-76	DIODE	1SS226		
D7215	8-719-800-76	DIODE	1SS226		
D7216	8-719-800-76	DIODE	1SS226		
D7217	8-719-800-76	DIODE	1SS226		
		FERRITE BEAD			
FB7201	1-414-921-11	FERRITE	0µH		
FB7202	1-414-921-11	FERRITE	0µH		
FB7203	1-414-921-11	FERRITE	0µH		
FB7204	1-414-921-11	FERRITE	0µH		
		IC			
IC7201	8-759-639-86	IC	SN65LVDS32DR		
IC7202	6-701-763-11	IC	DS90LV017ATMX		
IC7203	8-759-698-08	IC	SN74CBTLV1G125DCKR		
		COIL			
L7201	1-419-370-21	INDUCTOR	0µH		
L7202	1-419-370-21	INDUCTOR	0µH		
L7203	1-419-370-21	INDUCTOR	0µH		
L7204	1-419-370-21	INDUCTOR	0µH		
L7205	1-419-370-21	INDUCTOR	0µH		
		TRANSISTOR			
Q7201	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q7202	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q7203	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
		RESISTOR			
R7201	1-216-801-11	METAL CHIP	22	5%	1/10W
R7202	1-216-801-11	METAL CHIP	22	5%	1/10W
R7204	1-216-801-11	METAL CHIP	22	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R7205	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R7206	1-216-809-11	METAL CHIP	100	5%	1/10W
R7207	1-216-809-11	METAL CHIP	100	5%	1/10W
R7208	1-216-809-11	METAL CHIP	100	5%	1/10W
R7209	1-216-809-11	METAL CHIP	100	5%	1/10W
R7210	1-216-803-11	METAL CHIP	33	5%	1/10W
R7221	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7222	1-216-809-11	METAL CHIP	100	5%	1/10W
R7224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7225	1-216-845-11	METAL CHIP	100K	5%	1/10W
R7226	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R7228	1-216-864-11	SHORT CHIP			
R7231	1-216-864-11	SHORT CHIP			
R7232	1-216-841-11	METAL CHIP	47K	5%	1/10W
R7233	1-216-841-11	METAL CHIP	47K	5%	1/10W

UD

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

*	A-1300-324-A	UD BOARD, COMPLETE			
	CAPACITOR				
C7001	1-126-395-11	ELECT CHIP	22µF	20%	16V
C7002	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C7004	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7005	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7006	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7007	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C7008	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7010	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7011	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7012	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7013	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7014	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7015	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7016	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7017	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7018	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7019	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7020	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7021	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7022	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C7023	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C7024	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7025	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7026	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7027	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7028	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7029	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7030	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C7031	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C7032	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C7033	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7034	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7035	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7036	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7037	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7038	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7039	1-126-395-11	ELECT CHIP	22µF	20%	16V
C7040	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C7041	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7042	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7043	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7044	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7045	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7046	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7047	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7048	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7049	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7050	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7051	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7052	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7053	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7056	1-126-395-11	ELECT CHIP	22µF	20%	16V
C7057	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C7058	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7059	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7060	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7061	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7062	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7064	1-126-395-11	ELECT CHIP	22µF	20%	16V
C7065	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7066	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7067	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7068	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7069	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

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	REF. NO.	PART NO.	DESCRIPTION	VALUES	
	C7070	1-164-156-11	CERAMIC CHIP	0.1µF	25V
	C7071	1-164-156-11	CERAMIC CHIP	0.1µF	25V
	C7078	1-164-156-11	CERAMIC CHIP	0.1µF	25V
	C7079	1-164-156-11	CERAMIC CHIP	0.1µF	25V
	C7080	1-164-156-11	CERAMIC CHIP	0.1µF	25V
		CONNECTOR			
*	CN7001	1-816-228-21	CONNECTOR, DVI		
*	CN7002	1-564-526-11	PLUG, CONNECTOR	11P	
*	CN7004	1-564-519-11	PLUG, CONNECTOR	4P	
		DIODE			
	D7001	8-719-914-43	DIODE	DAN202K	
	D7002	8-719-069-55	DIODE	UDZSTE-175.6B	
	D7003	8-719-069-55	DIODE	UDZSTE-175.6B	
	D7004	8-719-069-55	DIODE	UDZSTE-175.6B	
	D7006	8-719-069-55	DIODE	UDZSTE-175.6B	
		FERRITE BEAD			
	FB7001	1-414-760-21	FERRITE	0µH	
	FB7002	1-414-760-21	FERRITE	0µH	
	FB7003	1-414-760-21	FERRITE	0µH	
	FB7004	1-414-760-21	FERRITE	0µH	
		FILTER			
	FL7001	1-400-087-21	FILTER, EMI REMOVAL (SMD)		
	FL7002	1-234-560-21	FILTER, LOW PASS		
	FL7003	1-234-559-21	FILTER, LOW PASS		
	FL7004	1-234-559-21	FILTER, LOW PASS		
		IC			
	IC7001	8-759-640-39	IC	BR24C02F-WE2	
	IC7002	8-749-015-18	IC	PQ07VZ012ZP	
	IC7003	8-749-015-18	IC	PQ07VZ012ZP	
	IC7004	6-702-080-01	IC	GM7030-H	
	IC7005	6-802-346-01	IC	ST72631K4M1/NNLTR	
	IC7006	8-759-641-86	IC	BR24C16F-E2	
	IC7007	6-702-170-01	IC	PACDN006S	
	IC7008	6-702-170-01	IC	PACDN006S	
	IC7009	6-702-170-01	IC	PACDN006S	

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	COIL				
L7001	1-412-058-11	INDUCTOR	10µH		
L7002	1-412-058-11	INDUCTOR	10µH		
	RESISTOR				
R7003	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7004	1-218-852-11	METAL CHIP	1.6K	0.50%	1/10W
R7007	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7012	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7013	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7014	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7015	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7016	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7020	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7021	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7023	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7024	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7025	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7029	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R7030	1-216-864-11	SHORT CHIP			
R7032	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7034	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7036	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7037	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7041	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7044	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7045	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7047	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7051	1-216-864-11	SHORT CHIP			
R7053	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7054	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7056	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7057	1-216-864-11	SHORT CHIP			
R7058	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7059	1-216-864-11	SHORT CHIP			
R7060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7061	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7062	1-216-864-11	SHORT CHIP			

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R7065	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7066	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
R7067	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7068	1-216-801-11	METAL CHIP	22	5%	1/10W
R7069	1-216-801-11	METAL CHIP	22	5%	1/10W
R7071	1-216-803-11	METAL CHIP	33	5%	1/10W
R7072	1-216-803-11	METAL CHIP	33	5%	1/10W
R7075	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7080	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7087	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R7096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7097	1-216-809-11	METAL CHIP	100	5%	1/10W
R7098	1-216-809-11	METAL CHIP	100	5%	1/10W
R7099	1-216-809-11	METAL CHIP	100	5%	1/10W
R7101	1-216-864-11	SHORT CHIP			
R7106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7108	1-216-805-11	METAL CHIP	47	5%	1/10W
R7109	1-216-805-11	METAL CHIP	47	5%	1/10W
R7111	1-216-864-11	SHORT CHIP			
R7112	1-216-864-11	SHORT CHIP			
R7113	1-216-864-11	SHORT CHIP			
R7114	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7115	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7116	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7117	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R7119	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R7121	1-216-864-11	SHORT CHIP			
R7123	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7124	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R7125	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7126	1-216-864-11	SHORT CHIP			

CRYSTAL

X7001	1-795-568-21	VIBRATOR, CRYSTAL
X7002	1-795-567-21	VIBRATOR, CRYSTAL

B

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	A-1300-325-A	B BOARD, COMPLETE			

CAPACITOR

C2801	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2802	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2804	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C2805	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2806	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2808	1-126-398-11	ELECT CHIP	4.7µF	20%	35V
C2809	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2810	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2811	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2812	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2813	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2814	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2815	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2816	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2817	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2818	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2819	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2820	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2821	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2822	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2823	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2824	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2825	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2826	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2827	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2828	1-110-563-11	CERAMIC CHIP	0.068µF	10%	16V
C2829	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C2830	1-128-996-11	ELECT CHIP	4.7µF	20%	50V
C2831	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2833	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C2834	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2835	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2836	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2837	1-117-681-11	ELECT CHIP	100µF	20%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2840	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2841	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2842	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2843	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2844	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2845	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2846	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2847	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C2849	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2850	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2851	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3001	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3002	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3003	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3005	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3006	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3008	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3009	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3011	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3012	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3013	1-128-391-11	ELECT CHIP	330µF	20%	6.3V
C3014	1-128-391-11	ELECT CHIP	330µF	20%	6.3V
C3015	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3016	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3017	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3018	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3020	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3021	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3023	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3024	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3025	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3027	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3028	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3029	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3030	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3031	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3032	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3033	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C3034	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3035	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3036	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3037	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3038	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3040	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3042	1-100-202-21	ELECT CHIP	330µF	20%	6.3V
C3044	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3046	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3047	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3048	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3049	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3089	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3090	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3095	1-128-359-11	ELECT CHIP	100µF	20%	10V
C3096	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3097	1-128-359-11	ELECT CHIP	100µF	20%	10V
C3098	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3101	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C3102	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C3103	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3301	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3302	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3303	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3304	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3305	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3307	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3308	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3309	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3313	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3314	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3315	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3316	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3317	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3318	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3319	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3325	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3326	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3329	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3333	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3334	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3335	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3337	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3341	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3343	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3349	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3350	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3351	1-164-156-11	CERAMIC CHIP	0.1µF		25V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3357	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3358	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3359	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3360	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3363	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3364	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3365	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3366	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3367	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3368	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3369	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3370	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3371	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3372	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3374	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3375	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3376	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3377	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3378	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3379	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3401	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3402	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3403	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3404	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C3405	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C3406	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3407	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3408	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C3409	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3410	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3411	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3412	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3413	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3414	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3415	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3416	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3417	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3418	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3419	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3420	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3421	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3422	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3423	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3424	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3425	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3426	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3428	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3429	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3430	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3431	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3432	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3433	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3434	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3435	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3436	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3437	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3438	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3439	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3442	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3443	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3444	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3445	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3446	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3447	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3448	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3449	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3450	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3452	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3453	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3454	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3455	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3456	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3457	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3458	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C3462	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3463	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3464	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3465	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3466	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3467	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3468	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3469	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3470	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3473	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3474	1-124-779-00	ELECT CHIP	10µF	20%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3475	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3476	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3477	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3478	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3479	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3480	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3481	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3482	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3483	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3484	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3485	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3486	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3487	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3488	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3489	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3490	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3491	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3492	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3493	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3494	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3495	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3496	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3499	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3500	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C3501	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3601	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3602	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3604	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3605	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3606	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3607	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3608	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3610	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3611	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3612	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3613	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C3614	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3615	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3617	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3618	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3619	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C3620	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3622	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3623	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3624	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3625	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C3626	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3627	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3628	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3629	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3630	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3906	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3912	1-126-206-11	ELECT CHIP	100µF	20%	6.3V

CONNECTOR

*	CN2803	1-564-508-11	PLUG, CONNECTOR	5P
*	CN2805	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P
*	CN3601	1-816-070-21	CONNECTOR, BOARD TO BOARD	60P
*	CN3603	1-815-177-12	PIN, CONNECTOR(WITH SHIELD)	22P

DIODE

D2803	8-719-404-50	DIODE	MA111-TX
D2806	8-719-069-55	DIODE	UDZSTE-175.6B
D3001	8-719-404-50	DIODE	MA111-TX
D3002	8-719-083-58	DIODE	UDZSTE-173.9B
D3089	8-719-800-76	DIODE	1SS226
D3090	8-719-800-76	DIODE	1SS226
D3401	8-719-914-43	DIODE	DAN202K
D3402	8-719-914-44	DIODE	DAP202K
D3403	8-719-978-33	DIODE	DTZ-TT11-6.8B
D3404	8-719-404-50	DIODE	MA111-TX
D3601	8-719-800-76	DIODE	1SS226
D3603	8-719-083-58	DIODE	UDZSTE-173.9B

FERRITE BEAD

FB3001	1-500-451-11	FERRITE	0µH		
FB3002	1-216-864-11	SHORT CHIP			
FB3303	1-216-809-11	METAL CHIP	100	5%	1/10W
FB3304	1-469-110-21	FERRITE	0µH		
FB3401	1-414-235-22	FERRITE	0µH		
FB3402	1-414-235-22	FERRITE	0µH		
FB3403	1-216-864-11	SHORT CHIP			
FB3601	1-414-228-11	FERRITE	0µH		
FB3602	1-414-228-11	FERRITE	0µH		
FB3608	1-469-568-21	FERRITE	0µH		

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REF. NO.	PART NO.	DESCRIPTION	VALUES
FB3609	1-414-921-11	FERRITE	0µH
FB3610	1-414-921-11	FERRITE	0µH
FB3611	1-414-921-11	FERRITE	0µH
FB3612	1-414-921-11	FERRITE	0µH
FB3623	1-414-228-11	FERRITE	0µH
FB3624	1-216-864-11	SHORT CHIP	
	FILTER		
FL3001	1-234-177-21	FERRITE	0µH
FL3002	1-234-177-21	FERRITE	0µH
FL3003	1-781-924-21	FILTER, LOW PASS (SMD)	
FL3301	1-234-558-21	FILTER, LOW PASS	
FL3302	1-234-557-21	FILTER, LOW PASS	
FL3303	1-234-557-21	FILTER, LOW PASS	
FL3401	1-781-923-21	FILTER, LOW PASS (SMD)	
	IC		
IC2801	8-752-102-68	IC	CXA2170Q
IC3002	8-759-583-47	IC	UPC2933T-E2
IC3003	6-701-892-01	IC	TC90A90F(BH,DRY)
IC3004	8-759-642-22	IC	UPC29M05T-E2
IC3089	6-704-573-01	IC	M24C32-WMN6T(B)
IC3090	6-801-376-01	IC	MB94918RpF-G-147-BND
IC3091	8-759-352-91	IC	PST9143NL
IC3301	8-759-663-74	IC	HY57V161610DTC-7TR
IC3302	6-700-398-01	IC	UPC2918T-E1
IC3303	8-752-409-78	IC	CXD2095AQ
IC3306	8-759-669-78	IC	TLC2933IPWR-12
IC3401	6-700-399-01	IC	UPC2925T-E1
IC3402	8-759-677-37	IC	MT48LC2M32B2TG-7
IC3403	8-759-460-29	IC	PST9120NL
IC3404	8-759-669-75	IC	TLC2932IPWR
IC3405	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3406	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3407	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3408	8-759-672-57	IC	CXD9509AQ
IC3409	8-759-833-72	IC	NJM2870F25-TE2
IC3410	8-752-409-20	IC	CXD2309AQ
IC3411	8-759-082-57	IC	TC7W04FU
IC3413	8-759-549-07	IC	SN74LV157APWR
IC3414	8-759-548-56	IC	M52055FP
IC3601	8-759-592-50	IC	TC7SZ126FU(TE85R)
IC3602	8-759-592-49	IC	TC7SZ125FU(TE85R)
IC3603	8-759-639-85	IC	SN65LVDS31DR
IC3604	6-701-762-11	IC	DS90LV018ATMX
IC3605	8-759-698-08	IC	SN74CBTLV1G125DCKR
IC3607	8-759-592-49	IC	TC7SZ125FU(TE85R)
IC3608	8-759-669-75	IC	TLC2932IPWR
IC3609	8-759-828-44	IC	NJM2870F33(TE2)
	COIL		
L2801	1-469-555-21	INDUCTOR	10µH
L2803	1-469-555-21	INDUCTOR	10µH
L2804	1-469-555-21	INDUCTOR	10µH
L2805	1-469-555-21	INDUCTOR	10µH
L2806	1-469-555-21	INDUCTOR	10µH
L2807	1-469-555-21	INDUCTOR	10µH
L2811	1-469-555-21	INDUCTOR	10µH
L3001	1-216-295-91	SHORT CHIP	
L3004	1-412-026-11	INDUCTOR	1µH
L3005	1-412-026-11	INDUCTOR	1µH
L3007	1-469-555-21	INDUCTOR	10µH
L3009	1-469-555-21	INDUCTOR	10µH
L3010	1-469-555-21	INDUCTOR	10µH
L3011	1-469-555-21	INDUCTOR	10µH
L3089	1-414-233-22	FERRITE	0µH
L3102	1-469-552-21	INDUCTOR	3.3µH
L3304	1-469-555-21	INDUCTOR	10µH
L3310	1-469-561-21	INDUCTOR	100µH
L3311	1-469-561-21	INDUCTOR	100µH
L3402	1-412-052-21	INDUCTOR	1µH
L3403	1-469-561-21	INDUCTOR	100µH
L3404	1-469-561-21	INDUCTOR	100µH
L3405	1-469-555-21	INDUCTOR	10µH
L3406	1-469-555-21	INDUCTOR	10µH
L3407	1-469-555-21	INDUCTOR	10µH
L3409	1-469-555-21	INDUCTOR	10µH
L3411	1-412-058-11	INDUCTOR	10µH
L3412	1-469-555-21	INDUCTOR	10µH
L3413	1-469-555-21	INDUCTOR	10µH
L3414	1-469-555-21	INDUCTOR	10µH
L3416	1-469-555-21	INDUCTOR	10µH
L3418	1-469-555-21	INDUCTOR	10µH
L3601	1-419-370-21	INDUCTOR	0µH
L3602	1-419-370-21	INDUCTOR	0µH

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REF. NO.	PART NO.	DESCRIPTION	VALUES
L3603	1-419-370-21	INDUCTOR	0µH
L3604	1-419-370-21	INDUCTOR	0µH
L3605	1-419-370-21	INDUCTOR	0µH
L3903	1-412-052-21	INDUCTOR	1µH
		TRANSISTOR	
Q2801	8-729-122-63	TRANSISTOR	2SA1226-E4
Q2802	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2803	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2804	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2805	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2806	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2807	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2811	8-729-122-63	TRANSISTOR	2SA1226-E4
Q2812	8-729-122-63	TRANSISTOR	2SA1226-E4
Q2813	8-729-122-63	TRANSISTOR	2SA1226-E4
Q2818	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2819	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2820	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2821	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2822	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2823	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3003	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3005	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3006	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3007	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3009	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3089	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3090	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3092	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3093	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3302	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3303	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3305	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3306	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3307	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3308	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3309	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3310	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3311	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3401	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3402	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
Q3403	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3404	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
Q3405	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3406	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3407	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3408	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3409	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3410	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3411	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3412	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3413	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3414	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3415	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3416	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3601	8-729-422-27	TRANSISTOR	2SD601A-Q
		RESISTOR	
R2801	1-218-867-11	METAL CHIP	6.8K 0.50% 1/10W
R2803	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2804	1-216-805-11	METAL CHIP	47 5% 1/10W
R2805	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R2806	1-216-863-11	METAL CHIP	3.3M 5% 1/10W
R2807	1-216-809-11	METAL CHIP	100 5% 1/10W
R2808	1-216-834-11	METAL CHIP	12K 5% 1/10W
R2809	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R2810	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R2811	1-216-809-11	METAL CHIP	100 5% 1/10W
R2812	1-218-708-11	METAL CHIP	4.7K 0.50% 1/10W
R2813	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2815	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2816	1-216-845-11	METAL CHIP	100K 5% 1/10W
R2817	1-216-809-11	METAL CHIP	100 5% 1/10W
R2818	1-216-809-11	METAL CHIP	100 5% 1/10W
R2819	1-216-809-11	METAL CHIP	100 5% 1/10W
R2820	1-216-809-11	METAL CHIP	100 5% 1/10W
R2821	1-216-809-11	METAL CHIP	100 5% 1/10W
R2823	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2824	1-216-809-11	METAL CHIP	100 5% 1/10W
R2825	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2826	1-218-716-11	METAL CHIP	10K 0.50% 1/10W
R2827	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2828	1-216-832-11	METAL CHIP	8.2K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2829	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2830	1-216-818-11	METAL CHIP	560	5%	1/10W
R2831	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2832	1-216-809-11	METAL CHIP	100	5%	1/10W
R2833	1-216-809-11	METAL CHIP	100	5%	1/10W
R2834	1-216-809-11	METAL CHIP	100	5%	1/10W
R2835	1-216-809-11	METAL CHIP	100	5%	1/10W
R2836	1-216-809-11	METAL CHIP	100	5%	1/10W
R2837	1-216-809-11	METAL CHIP	100	5%	1/10W
R2838	1-216-809-11	METAL CHIP	100	5%	1/10W
R2839	1-216-809-11	METAL CHIP	100	5%	1/10W
R2840	1-216-809-11	METAL CHIP	100	5%	1/10W
R2841	1-216-809-11	METAL CHIP	100	5%	1/10W
R2842	1-216-809-11	METAL CHIP	100	5%	1/10W
R2843	1-216-809-11	METAL CHIP	100	5%	1/10W
R2844	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R2845	1-216-809-11	METAL CHIP	100	5%	1/10W
R2846	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2847	1-216-809-11	METAL CHIP	100	5%	1/10W
R2848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2849	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2850	1-216-809-11	METAL CHIP	100	5%	1/10W
R2851	1-216-815-11	METAL CHIP	330	5%	1/10W
R2854	1-216-864-11	SHORT CHIP			
R2858	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R2860	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2861	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2862	1-216-809-11	METAL CHIP	100	5%	1/10W
R2865	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2866	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2867	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2868	1-216-809-11	METAL CHIP	100	5%	1/10W
R2869	1-216-809-11	METAL CHIP	100	5%	1/10W
R2870	1-216-809-11	METAL CHIP	100	5%	1/10W
R2880	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2881	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2883	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2884	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2885	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2886	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2887	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2889	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2890	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2892	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2893	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2894	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2895	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2896	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2897	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2898	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2899	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R2900	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2901	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2907	1-216-807-11	METAL CHIP	68	5%	1/10W
R2908	1-216-807-11	METAL CHIP	68	5%	1/10W
R2909	1-216-807-11	METAL CHIP	68	5%	1/10W
R2911	1-216-864-11	SHORT CHIP			
R2913	1-216-864-11	SHORT CHIP			
R2919	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R2920	1-216-864-11	SHORT CHIP			
R2921	1-216-864-11	SHORT CHIP			
R2922	1-216-864-11	SHORT CHIP			
R3002	1-216-864-11	SHORT CHIP			
R3004	1-216-864-11	SHORT CHIP			
R3013	1-216-809-11	METAL CHIP	100	5%	1/10W
R3014	1-216-809-11	METAL CHIP	100	5%	1/10W
R3015	1-216-809-11	METAL CHIP	100	5%	1/10W
R3017	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3020	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3021	1-216-809-11	METAL CHIP	100	5%	1/10W
R3022	1-216-809-11	METAL CHIP	100	5%	1/10W
R3023	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3025	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3029	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3030	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3031	1-216-809-11	METAL CHIP	100	5%	1/10W
R3032	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3033	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3034	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3035	1-216-809-11	METAL CHIP	100	5%	1/10W
R3036	1-216-809-11	METAL CHIP	100	5%	1/10W
R3037	1-216-809-11	METAL CHIP	100	5%	1/10W
R3038	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3039	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3040	1-218-686-11	METAL CHIP	560	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3043	1-216-864-11	SHORT CHIP			
R3045	1-216-809-11	METAL CHIP	100	5%	1/10W
R3047	1-216-864-11	SHORT CHIP			
R3049	1-216-859-11	METAL CHIP	1.5M	5%	1/10W
R3050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3051	1-216-864-11	SHORT CHIP			
R3056	1-216-817-11	METAL CHIP	470	5%	1/10W
R3057	1-216-817-11	METAL CHIP	470	5%	1/10W
R3058	1-216-817-11	METAL CHIP	470	5%	1/10W
R3059	1-216-809-11	METAL CHIP	100	5%	1/10W
R3060	1-216-809-11	METAL CHIP	100	5%	1/10W
R3061	1-216-809-11	METAL CHIP	100	5%	1/10W
R3063	1-216-864-11	SHORT CHIP			
R3064	1-216-864-11	SHORT CHIP			
R3066	1-216-809-11	METAL CHIP	100	5%	1/10W
R3068	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3069	1-216-820-11	METAL CHIP	820	5%	1/10W
R3070	1-216-864-11	SHORT CHIP			
R3071	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3072	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3073	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3074	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3075	1-216-801-11	METAL CHIP	22	5%	1/10W
R3076	1-216-864-11	SHORT CHIP			
R3077	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3078	1-216-815-11	METAL CHIP	330	5%	1/10W
R3079	1-216-815-11	METAL CHIP	330	5%	1/10W
R3089	1-216-864-11	SHORT CHIP			
R3091	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3092	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3093	1-216-864-11	SHORT CHIP			
R3095	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3096	1-216-817-11	METAL CHIP	470	5%	1/10W
R3097	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3098	1-216-805-11	METAL CHIP	47	5%	1/10W
R3099	1-216-805-11	METAL CHIP	47	5%	1/10W
R3100	1-216-809-11	METAL CHIP	100	5%	1/10W
R3101	1-216-809-11	METAL CHIP	100	5%	1/10W
R3102	1-216-809-11	METAL CHIP	100	5%	1/10W
R3103	1-216-809-11	METAL CHIP	100	5%	1/10W
R3104	1-216-809-11	METAL CHIP	100	5%	1/10W
R3105	1-216-809-11	METAL CHIP	100	5%	1/10W
R3107	1-216-864-11	SHORT CHIP			
R3108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3110	1-216-809-11	METAL CHIP	100	5%	1/10W
R3111	1-216-809-11	METAL CHIP	100	5%	1/10W
R3116	1-216-797-11	METAL CHIP	10	5%	1/10W
R3117	1-216-797-11	METAL CHIP	10	5%	1/10W
R3150	1-216-864-11	SHORT CHIP			
R3302	1-216-817-11	METAL CHIP	470	5%	1/10W
R3303	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R3304	1-216-809-11	METAL CHIP	100	5%	1/10W
R3323	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3324	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3325	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3326	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3335	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3341	1-216-813-11	METAL CHIP	220	5%	1/10W
R3342	1-218-705-11	METAL CHIP	3.6K	0.50%	1/10W
R3343	1-216-809-11	METAL CHIP	100	5%	1/10W
R3344	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3345	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3346	1-216-809-11	METAL CHIP	100	5%	1/10W
R3347	1-216-815-11	METAL CHIP	330	5%	1/10W
R3348	1-216-864-11	SHORT CHIP			
R3349	1-218-687-11	METAL CHIP	620	0.50%	1/10W
R3350	1-216-814-11	METAL CHIP	270	5%	1/10W
R3351	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3352	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3353	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3354	1-216-813-11	METAL CHIP	220	5%	1/10W
R3355	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3357	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3358	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3359	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3360	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3364	1-216-864-11	SHORT CHIP			
R3365	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3366	1-216-864-11	SHORT CHIP			
R3367	1-216-805-11	METAL CHIP	47	5%	1/10W
R3369	1-216-864-11	SHORT CHIP			
R3370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3371	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3372	1-216-817-11	METAL CHIP	470	5%	1/10W
R3373	1-216-817-11	METAL CHIP	470	5%	1/10W
R3374	1-216-809-11	METAL CHIP	100	5%	1/10W
R3375	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3376	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3377	1-216-817-11	METAL CHIP	470	5%	1/10W
R3378	1-216-817-11	METAL CHIP	470	5%	1/10W
R3379	1-216-809-11	METAL CHIP	100	5%	1/10W
R3380	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3381	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R3382	1-216-864-11	SHORT CHIP			
R3383	1-216-817-11	METAL CHIP	470	5%	1/10W
R3384	1-216-864-11	SHORT CHIP			
R3385	1-216-864-11	SHORT CHIP			
R3386	1-216-864-11	SHORT CHIP			
R3387	1-216-864-11	SHORT CHIP			
R3388	1-216-864-11	SHORT CHIP			
R3389	1-216-864-11	SHORT CHIP			
R3390	1-216-864-11	SHORT CHIP			
R3391	1-216-864-11	SHORT CHIP			
R3392	1-216-864-11	SHORT CHIP			
R3393	1-216-864-11	SHORT CHIP			
R3394	1-216-864-11	SHORT CHIP			
R3400	1-216-864-11	SHORT CHIP			
R3401	1-216-864-11	SHORT CHIP			
R3406	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3407	1-216-864-11	SHORT CHIP			
R3409	1-216-864-11	SHORT CHIP			
R3410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3411	1-216-797-11	METAL CHIP	10	5%	1/10W
R3421	1-216-864-11	SHORT CHIP			
R3422	1-216-864-11	SHORT CHIP			
R3423	1-216-813-11	METAL CHIP	220	5%	1/10W
R3425	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W
R3426	1-216-809-11	METAL CHIP	100	5%	1/10W
R3428	1-469-094-21	FERRITE	0µH		
R3429	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3432	1-216-815-11	METAL CHIP	330	5%	1/10W
R3434	1-216-809-11	METAL CHIP	100	5%	1/10W
R3435	1-216-809-11	METAL CHIP	100	5%	1/10W
R3436	1-216-809-11	METAL CHIP	100	5%	1/10W
R3437	1-216-809-11	METAL CHIP	100	5%	1/10W
R3438	1-216-809-11	METAL CHIP	100	5%	1/10W
R3439	1-216-809-11	METAL CHIP	100	5%	1/10W
R3440	1-216-809-11	METAL CHIP	100	5%	1/10W
R3441	1-216-809-11	METAL CHIP	100	5%	1/10W
R3442	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3445	1-216-864-11	SHORT CHIP			
R3446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3447	1-216-819-11	METAL CHIP	680	5%	1/10W
R3448	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3451	1-216-809-11	METAL CHIP	100	5%	1/10W
R3452	1-216-864-11	SHORT CHIP			
R3454	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3457	1-216-813-11	METAL CHIP	220	5%	1/10W
R3460	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3464	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3465	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3466	1-216-813-11	METAL CHIP	220	5%	1/10W
R3467	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3468	1-216-864-11	SHORT CHIP			
R3469	1-216-864-11	SHORT CHIP			
R3470	1-216-809-11	METAL CHIP	100	5%	1/10W
R3471	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3472	1-216-801-11	METAL CHIP	22	5%	1/10W
R3473	1-216-864-11	SHORT CHIP			
R3475	1-216-809-11	METAL CHIP	100	5%	1/10W
R3476	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3477	1-216-809-11	METAL CHIP	100	5%	1/10W
R3478	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3480	1-216-809-11	METAL CHIP	100	5%	1/10W
R3483	1-216-809-11	METAL CHIP	100	5%	1/10W
R3484	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3485	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3486	1-216-801-11	METAL CHIP	22	5%	1/10W
R3489	1-216-864-11	SHORT CHIP			
R3490	1-216-864-11	SHORT CHIP			
R3491	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3492	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3493	1-216-809-11	METAL CHIP	100	5%	1/10W
R3494	1-216-813-11	METAL CHIP	220	5%	1/10W
R3495	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3496	1-216-801-11	METAL CHIP	22	5%	1/10W
R3497	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3498	1-216-818-11	METAL CHIP	560	5%	1/10W
R3499	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3503	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3504	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3506	1-216-821-11	METAL CHIP	1K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3507	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3508	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3509	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3533	1-216-809-11	METAL CHIP	100	5%	1/10W
R3535	1-216-809-11	METAL CHIP	100	5%	1/10W
R3536	1-216-864-11	SHORT CHIP			
R3537	1-216-864-11	SHORT CHIP			
R3601	1-216-864-11	SHORT CHIP			
R3602	1-216-864-11	SHORT CHIP			
R3603	1-216-864-11	SHORT CHIP			
R3604	1-216-864-11	SHORT CHIP			
R3605	1-216-864-11	SHORT CHIP			
R3606	1-216-864-11	SHORT CHIP			
R3607	1-216-864-11	SHORT CHIP			
R3608	1-216-864-11	SHORT CHIP			
R3609	1-216-864-11	SHORT CHIP			
R3610	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3611	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3612	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3613	1-216-801-11	METAL CHIP	22	5%	1/10W
R3614	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3615	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R3616	1-216-809-11	METAL CHIP	100	5%	1/10W
R3618	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3800	1-216-864-11	SHORT CHIP			
R3802	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3803	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3804	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3805	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3807	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3808	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3809	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3810	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3811	1-216-809-11	METAL CHIP	100	5%	1/10W
R3812	1-216-809-11	METAL CHIP	100	5%	1/10W
R3813	1-216-809-11	METAL CHIP	100	5%	1/10W
R3814	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3815	1-218-648-11	METAL CHIP	15	0.50%	1/10W
R3816	1-218-652-11	METAL CHIP	22	0.50%	1/10W
R3817	1-218-652-11	METAL CHIP	22	0.50%	1/10W
R3820	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3821	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3822	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3823	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3824	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3825	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3826	1-216-809-11	METAL CHIP	100	5%	1/10W
R3828	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3829	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3830	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3831	1-216-864-11	SHORT CHIP			
R3832	1-216-864-11	SHORT CHIP			
R3833	1-216-864-11	SHORT CHIP			
R3834	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3835	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3836	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3837	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3838	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3839	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3840	1-216-805-11	METAL CHIP	47	5%	1/10W
R3841	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3842	1-218-689-11	METAL CHIP	750	0.50%	1/10W
R3846	1-216-801-11	METAL CHIP	22	5%	1/10W
R3847	1-216-801-11	METAL CHIP	22	5%	1/10W
R3848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3849	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3850	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3851	1-216-809-11	METAL CHIP	100	5%	1/10W
R3852	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3854	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3857	1-216-809-11	METAL CHIP	100	5%	1/10W
R3858	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3862	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3863	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R3864	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3865	1-216-809-11	METAL CHIP	100	5%	1/10W
R3866	1-414-234-22	FERRITE	0µH		
R3867	1-414-234-22	FERRITE	0µH		
R3868	1-414-234-22	FERRITE	0µH		
R3881	1-216-807-11	METAL CHIP	68	5%	1/10W
R3882	1-216-807-11	METAL CHIP	68	5%	1/10W
R3883	1-216-807-11	METAL CHIP	68	5%	1/10W
R3911	1-216-821-11	METAL CHIP	1K	5%	1/10
R3933	1-216-864-11	SHORT CHIP			
R3937	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3953	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3956	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3957	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3958	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3975	1-216-864-11	SHORT CHIP			
R3976	1-216-864-11	SHORT CHIP			
R3977	1-216-864-11	SHORT CHIP			
R3978	1-216-864-11	SHORT CHIP			
R3979	1-216-864-11	SHORT CHIP			
R3980	1-216-864-11	SHORT CHIP			
R3981	1-216-864-11	SHORT CHIP			
R3982	1-216-864-11	SHORT CHIP			
R3983	1-216-864-11	SHORT CHIP			
R3984	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3985	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3986	1-218-644-11	METAL CHIP	10	0.50%	1/10W

RESISTOR BRIDGE

RB3001	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3002	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3003	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3004	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3011	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3013	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3014	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3015	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3100	1-233-574-11	RES, CHIP NETWORK	10
RB3101	1-233-574-11	RES, CHIP NETWORK	10
RB3102	1-233-574-11	RES, CHIP NETWORK	10
RB3103	1-233-574-11	RES, CHIP NETWORK	10
RB3304	1-233-576-11	RES, CHIP NETWORK	100
RB3305	1-233-576-11	RES, CHIP NETWORK	100
RB3306	1-233-576-11	RES, CHIP NETWORK	100
RB3307	1-233-576-11	RES, CHIP NETWORK	100
RB3401	1-234-524-21	RES, CHIP NETWORK	33
RB3402	1-234-524-21	RES, CHIP NETWORK	33
RB3403	1-234-524-21	RES, CHIP NETWORK	33
RB3404	1-234-524-21	RES, CHIP NETWORK	33
RB3405	1-234-524-21	RES, CHIP NETWORK	33
RB3406	1-234-524-21	RES, CHIP NETWORK	33
RB3407	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3408	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3409	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3410	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3411	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3412	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3421	1-233-576-11	RES, CHIP NETWORK	100
RB3422	1-233-576-11	RES, CHIP NETWORK	100
RB3423	1-233-576-11	RES, CHIP NETWORK	100
RB3424	1-233-576-11	RES, CHIP NETWORK	100
RB3425	1-233-576-11	RES, CHIP NETWORK	100
RB3426	1-233-576-11	RES, CHIP NETWORK	100
RB3427	1-233-576-11	RES, CHIP NETWORK	100
RB3428	1-233-576-11	RES, CHIP NETWORK	100
RB3436	1-234-523-21	RES, CHIP NETWORK	0 (3216)
RB3437	1-234-523-21	RES, CHIP NETWORK	0 (3216)
RB3438	1-234-523-21	RES, CHIP NETWORK	0 (3216)
RB3439	1-234-523-21	RES, CHIP NETWORK	0 (3216)

CRYSTAL

X2801	1-760-895-21	VIBRATOR, CERAMIC
X3089	1-781-945-21	VIBRATOR, CERAMIC
X3401	1-781-887-21	VIBRATOR, CRYSTAL

BM1C

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

* **A-1300-690-A BM1C BOARD, COMPLETE**

CAPACITOR

C103	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C105	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C106	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C107	1-126-390-11	ELECT CHIP	22µF	20%	6.3V
C108	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C110	1-126-394-11	ELECT CHIP	10µF	20%	16V
C112	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C118	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C123	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C124	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C125	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C126	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C127	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C128	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C129	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C130	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C131	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C132	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C133	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C134	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C135	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C136	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C137	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C138	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C139	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C141	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C142	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C143	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C144	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C145	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C146	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C147	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C148	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C151	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C154	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C162	1-126-394-11	ELECT CHIP	10µF	20%	16V
C163	1-126-394-11	ELECT CHIP	10µF	20%	16V
C164	1-126-390-11	ELECT CHIP	22µF	20%	6.3V
C165	1-124-779-00	ELECT CHIP	10µF	20%	16V
C166	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

CONNECTOR

* CN104	1-816-933-21	CONNECTOR, BOARD TO BOARD	60P	

DIODE

D101	8-719-024-77	DIODE	HN1D03FU-TE85L
D102	8-719-024-77	DIODE	HN1D03FU-TE85L
D201	8-719-024-77	DIODE	HN1D03FU-TE85L

REF. NO.	PART NO.	DESCRIPTION	VALUES

FERRITE BEAD

FB101	1-414-921-11	FERRITE	0µH
FB102	1-414-921-11	FERRITE	0µH
FB103	1-414-921-11	FERRITE	0µH
FB104	1-414-921-11	FERRITE	0µH
FB106	1-500-451-11	FERRITE	0µH
FB109	1-414-921-11	FERRITE	0µH
FB110	1-414-921-11	FERRITE	0µH
FB111	1-414-921-11	FERRITE	0µH
FB120	1-414-921-11	FERRITE	0µH
FB121	1-414-921-11	FERRITE	0µH
FB122	1-414-921-11	FERRITE	0µH
FB123	1-414-921-11	FERRITE	0µH
FB124	1-414-921-11	FERRITE	0µH
FB137	1-414-921-11	FERRITE	0µH
FB141	1-414-921-11	FERRITE	0µH
FB143	1-414-921-11	FERRITE	0µH
FB149	1-414-921-11	FERRITE	0µH

IC

IC101	6-702-978-01	IC	MD2406H
IC102	6-802-277-11	IC	SST39VF800A70E-11300-T
IC104	8-759-460-72	IC	BA033FP-E2
IC106	8-759-697-54	IC	BR24C21F-E2
IC107	8-759-331-27	IC	MM1096AFF
IC108	6-702-511-11	IC	MT48LC8M16A2TG-75-Y95WT
IC111	8-759-832-05	IC	BA18BC0FP-E2
IC121	8-752-932-19	IC	CXP86608-001R

COIL

L106	1-469-555-21	INDUCTOR	10µH
L107	1-469-561-21	INDUCTOR	100µH

TRANSISTOR

Q101	8-729-013-28	TRANSISTOR	HN1B01FU-TE85R
Q103	8-729-905-35	TRANSISTOR	2SC4081-R
Q105	8-729-427-72	TRANSISTOR	XP4501
Q110	8-729-900-53	TRANSISTOR	DTC114EK
Q116	8-729-900-53	TRANSISTOR	DTC114EK
Q201	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
Q202	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
Q203	8-729-028-28	TRANSISTOR	2SK2036(TE85L)

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BM1C

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR				
R101	1-216-797-11	METAL CHIP	10	5%	1/10W
R102	1-216-797-11	METAL CHIP	10	5%	1/10W
R103	1-216-797-11	METAL CHIP	10	5%	1/10W
R105	1-216-797-11	METAL CHIP	10	5%	1/10W
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R112	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R120	1-216-833-11	METAL CHIP	10K	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R124	1-216-864-11	SHORT CHIP			
R125	1-216-864-11	SHORT CHIP			
R127	1-216-833-11	METAL CHIP	10K	5%	1/10W
R128	1-216-864-11	SHORT CHIP			
R129	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R136	1-216-797-11	METAL CHIP	10	5%	1/10W
R137	1-216-864-11	SHORT CHIP			
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W
R144	1-216-809-11	METAL CHIP	100	5%	1/10W
R145	1-216-809-11	METAL CHIP	100	5%	1/10W
R148	1-216-839-11	METAL CHIP	33K	5%	1/10W
R149	1-216-839-11	METAL CHIP	33K	5%	1/10W
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W
R155	1-216-833-11	METAL CHIP	10K	5%	1/10W
R158	1-216-864-11	SHORT CHIP			
R161	1-216-801-11	METAL CHIP	22	5%	1/10W
R164	1-216-833-11	METAL CHIP	10K	5%	1/10W
R186	1-216-864-11	SHORT CHIP			
R189	1-216-864-11	SHORT CHIP			
R190	1-216-864-11	SHORT CHIP			
R201	1-216-845-11	METAL CHIP	100K	5%	1/10W
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-809-11	METAL CHIP	100	5%	1/10W
R208	1-216-845-11	METAL CHIP	100K	5%	1/10W
R209	1-216-845-11	METAL CHIP	100K	5%	1/10W
R213	1-218-830-11	METAL CHIP	200	0.50%	1/10W
R217	1-216-833-11	METAL CHIP	10K	5%	1/10W
R218	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-216-809-11	METAL CHIP	100	5%	1/10W
R222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R226	1-216-833-11	METAL CHIP	10K	5%	1/10W
R230	1-216-833-11	METAL CHIP	10K	5%	1/10W
R232	1-218-709-11	METAL CHIP	5.1K	0.50%	1/10W
R238	1-216-864-11	SHORT CHIP			
R239	1-216-833-11	METAL CHIP	10K	5%	1/10W
R240	1-216-833-11	METAL CHIP	10K	5%	1/10W
R283	1-216-833-11	METAL CHIP	10K	5%	1/10W
R287	1-216-833-11	METAL CHIP	10K	5%	1/10W
R288	1-216-797-11	METAL CHIP	10	5%	1/10W
R290	1-216-797-11	METAL CHIP	10	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	
	RESISTOR BRIDGE		
RB101	1-234-381-21	RES, NETWORK 100KX4	(1005)
RB102	1-234-381-21	RES, NETWORK 100KX4	(1005)
RB103	1-234-381-21	RES, NETWORK 100KX4	(1005)
RB104	1-234-381-21	RES, NETWORK 100KX4	(1005)
RB105	1-234-372-21	RES, NETWORK 100X4	(1005)
RB106	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB107	1-234-370-21	RES, NETWORK 22X4	(1005)
RB108	1-234-370-21	RES, NETWORK 22X4	(1005)
RB109	1-234-370-21	RES, NETWORK 22X4	(1005)
RB110	1-234-370-21	RES, NETWORK 22X4	(1005)
RB111	1-234-370-21	RES, NETWORK 22X4	(1005)
RB112	1-234-370-21	RES, NETWORK 22X4	(1005)
RB113	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB114	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB115	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB121	1-234-371-21	RES, NETWORK 47X4	(1005)
RB122	1-234-371-21	RES, NETWORK 47X4	(1005)
RB123	1-234-371-21	RES, NETWORK 47X4	(1005)
RB124	1-234-371-21	RES, NETWORK 47X4	(1005)
RB131	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB132	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB133	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB134	1-234-378-21	RES, NETWORK 10KX4	(1005)

CRYSTAL		
X101	1-795-725-22	CRYSTAL OSCILLATOR (SMD)
X102	1-795-313-21	VIBRATOR, CERAMIC

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NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

A

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
A						
*		A-1302-350-A	A BOARD, COMPLETE			
		4-382-854-01	SCREW (M3X8), P, SW (+)			
		4-382-854-21	SCREW (M3X14), P, SW (+)			
*	A188	4-374-846-11	COVER, CAPACITOR, CAP TYPE			
		CAPACITOR				
	C501	1-165-529-11	MYLAR	0.22µF	10	275V
⚠	C503	1-165-529-11	MYLAR	0.22µF	10	275V
	C504	1-126-961-11	ELECT	2.2µF	20%	50V
⚠	C505	1-127-794-51	CERAMIC	2200pF	20%	250V
	C506	1-126-971-11	ELECT	470µF	20%	50V
	C507	1-126-943-11	ELECT	2200µF	20%	25V
⚠	C508	1-127-794-51	CERAMIC	2200pF	20%	250V
	C510	1-164-156-11	CERAMIC CHIP	0.1µF		25V
⚠	C512	1-165-530-21	MYLAR	0.47µF	10	0V
	C513	1-126-961-11	ELECT	2.2µF	20%	50V
	C514	1-126-960-11	ELECT	1µF	20%	50V
	C515	1-126-947-11	ELECT	47µF	20%	35V
	C516	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C517	1-104-665-11	ELECT	100µF	20%	25V
	C518	1-126-967-11	ELECT	47µF	20%	50V
	C519	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C520	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C521	1-104-665-11	ELECT	100µF	20%	25V
	C522	1-126-964-11	ELECT	10µF	20%	50V
	C523	1-104-665-11	ELECT	100µF	20%	25V
	C524	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C525	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C526	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
	C527	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C528	1-126-933-11	ELECT	100µF	20%	16V
	C530	1-126-941-11	ELECT	470µF	20%	25V
	C531	1-130-495-00	MYLAR	0.1µF	5%	50V
	C533	1-130-495-00	MYLAR	0.1µF	5%	50V
	C535	1-115-156-11	CERAMIC CHIP	1µF		10V
	C536	1-126-933-11	ELECT	100µF	20%	16V
	C537	1-126-941-11	ELECT	470µF	20%	25V
	C538	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
	C540	1-126-767-11	ELECT	1000µF	20%	16V
	C541	1-162-961-11	CERAMIC CHIP	330pF	10%	50V
	C542	1-126-941-11	ELECT	470µF	20%	25V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C547	1-126-767-11	ELECT	1000µF	20%	16V
C548	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C549	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C550	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C551	1-126-933-11	ELECT	100µF	20%	16V
C553	1-126-767-11	ELECT	1000µF	20%	16V
C554	1-126-933-11	ELECT	100µF	20%	16V
C555	1-126-933-11	ELECT	100µF	20%	16V
C556	1-126-767-11	ELECT	1000µF	20%	16V
C558	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C559	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C560	1-126-935-11	ELECT	470µF	20%	16V
C561	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C562	1-126-964-11	ELECT	10µF	20%	50V
C563	1-126-947-11	ELECT	47µF	20%	35V
C564	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C565	1-115-156-11	CERAMIC CHIP	1µF		10V
C566	1-162-961-11	CERAMIC CHIP	330pF	10%	50V
C567	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C569	1-126-767-11	ELECT	1000µF	20%	16V
C570	1-130-495-00	MYLAR	0.1µF	5%	50V
C571	1-130-495-00	MYLAR	0.1µF	5%	50V
C574	1-126-960-11	ELECT	1µF	20%	50V
C577	1-126-960-11	ELECT	1µF	20%	50V
C578	1-126-964-11	ELECT	10µF	20%	50V
C579	1-126-964-11	ELECT	10µF	20%	50V
C580	1-126-964-11	ELECT	10µF	20%	50V
C582	1-130-495-00	MYLAR	0.1µF	5%	50V
C583	1-126-960-11	ELECT	1µF	20%	50V
C584	1-126-960-11	ELECT	1µF	20%	50V
C585	1-126-960-11	ELECT	1µF	20%	50V
C586	1-130-495-00	MYLAR	0.1µF	5%	50V
C587	1-126-960-11	ELECT	1µF	20%	50V
C588	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C589	1-130-495-00	MYLAR	0.1µF	5%	50V
C590	1-126-953-11	ELECT	2200µF	20%	35V
C591	1-126-935-11	ELECT	470µF	20%	16V
C592	1-126-935-11	ELECT	470µF	20%	16V
C593	1-126-935-11	ELECT	470µF	20%	16V
C594	1-126-935-11	ELECT	470µF	20%	16V
C595	1-104-666-11	ELECT	220µF	20%	25V
C596	1-104-666-11	ELECT	220µF	20%	25V
C597	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C598	1-130-495-00	MYLAR	0.1µF	5%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C599	1-126-953-11	ELECT	2200µF	20%	35V
C601	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C604	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C606	1-130-495-00	MYLAR	0.1µF	5%	50V
C607	1-130-495-00	MYLAR	0.1µF	5%	50V
C608	1-130-495-00	MYLAR	0.1µF	5%	50V
C609	1-126-942-61	ELECT	1000µF	20%	25V
C610	1-126-942-61	ELECT	1000µF	20%	25V
C611	1-130-495-00	MYLAR	0.1µF	5%	50V
C612	1-126-953-11	ELECT	2200µF	20%	35V
C613	1-126-953-11	ELECT	2200µF	20%	35V
C900	1-104-666-11	ELECT	220µF	20%	25V
C901	1-126-939-11	ELECT	10000µF	20%	16V
C902	1-126-947-11	ELECT	47µF	20%	35V
C903	1-104-666-11	ELECT	220µF	20%	25V
C904	1-126-933-11	ELECT	100µF	20%	16V
C909	1-126-964-11	ELECT	10µF	20%	50V
C910	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C911	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C912	1-126-964-11	ELECT	10µF	20%	50V
C915	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C918	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C921	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V
C924	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V
C927	1-128-934-91	CERAMIC CHIP	0.33µF	20%	10V
C930	1-164-388-91	CERAMIC CHIP	270pF	5%	50V
C933	1-130-495-00	MYLAR	0.1µF	5%	50V
C939	1-126-933-11	ELECT	100µF	20%	16V
C942	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C945	1-126-933-11	ELECT	100µF	20%	16V

CONNECTOR

CN501	1-695-915-11	TAB (CONTACT)		
* CN503	1-580-843-11	PIN, CONNECTOR (POWER)		
* CN504	1-766-241-11	PIN, CONNECTOR (PC BOARD)		
* CN505	1-766-241-11	PIN, CONNECTOR (PC BOARD)		
* CN506	1-508-786-00	PIN, CONNECTOR (5MM PITCH)		2P
* CN507	1-764-812-12	CONNECTOR, BOARD TO BOARD		11P
* CN508	1-779-892-11	CONNECTOR, BOARD TO BOARD		10P
* CN509	1-779-892-11	CONNECTOR, BOARD TO BOARD		10P
CN510	1-793-494-11	CONNECTOR, BOARD TO BOARD		40P
* CN512	1-564-508-11	PLUG, CONNECTOR		5P

REF. NO.	PART NO.	DESCRIPTION	VALUES	
* CN514	1-766-240-11	PIN, CONNECTOR (PC BOARD)		2P
CN515	1-695-915-11	TAB (CONTACT)		
CN516	1-695-915-11	TAB (CONTACT)		
CN517	1-695-915-11	TAB (CONTACT)		
CN518	1-695-915-11	TAB (CONTACT)		
CN519	1-695-915-11	TAB (CONTACT)		
CN520	1-695-915-11	TAB (CONTACT)		
* CN521	1-779-892-11	CONNECTOR, BOARD TO BOARD		10P
* CN524	1-564-515-11	PLUG, CONNECTOR		12P
* CN526	1-564-508-11	PLUG, CONNECTOR		5P
* CN527	1-564-511-11	PLUG, CONNECTOR		8P
* CN528	1-564-507-11	PLUG, CONNECTOR		4P
* CN900	1-779-892-11	CONNECTOR, BOARD TO BOARD		10P

DIODE

D501	8-719-991-33	DIODE	1SS133T-77
D502	8-719-991-33	DIODE	1SS133T-77
D503	8-719-511-40	DIODE	S1VB40
D504	8-719-991-33	DIODE	1SS133T-77
D505	8-719-991-33	DIODE	1SS133T-77
D508	8-719-991-33	DIODE	1SS133T-77
D509	8-719-991-33	DIODE	1SS133T-77
D510	8-719-991-33	DIODE	1SS133T-77
D511	8-719-991-33	DIODE	1SS133T-77
D512	8-719-991-33	DIODE	1SS133T-77
D513	8-719-991-33	DIODE	1SS133T-77
D514	8-719-991-33	DIODE	1SS133T-77
D515	8-719-991-33	DIODE	1SS133T-77
D516	8-719-991-33	DIODE	1SS133T-77
D517	8-719-991-33	DIODE	1SS133T-77
D519	8-719-991-33	DIODE	1SS133T-77
D520	8-719-991-33	DIODE	1SS133T-77
D521	8-719-991-33	DIODE	1SS133T-77
D522	8-719-991-33	DIODE	1SS133T-77
D523	8-719-991-33	DIODE	1SS133T-77
D524	8-719-991-33	DIODE	1SS133T-77
D525	8-719-991-33	DIODE	1SS133T-77
D526	8-719-991-33	DIODE	1SS133T-77
D527	8-719-991-33	DIODE	1SS133T-77
D530	8-719-924-13	DIODE	MTZJ-T-77-22B
D531	8-719-924-13	DIODE	MTZJ-T-77-22B
D534	8-719-991-33	DIODE	1SS133T-77
D535	8-719-991-33	DIODE	1SS133T-77

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A

REF. NO.	PART NO.	DESCRIPTION	VALUES	
D540	8-719-991-33	DIODE	1SS133T-77	
D541	8-719-991-33	DIODE	1SS133T-77	
D900	8-719-110-31	DIODE	RD12ESB2	
D901	8-719-063-74	DIODE	D1NL20U-TR2	
D903	8-719-110-31	DIODE	RD12ESB2	
	FUSE			
⚠ F501	1-532-506-51	FUSE	6.3A	250V
	FERRITE BEAD			
FB500	1-412-911-11	FERRITE	0µH	
FB502	1-412-911-11	FERRITE	0µH	
FB901	1-410-397-21	FERRITE	1.1µH	
	FUSE HOLDER			
⚠ FH501	1-533-223-11	FUSE HOLDER	0A	0V
⚠ FH502	1-533-223-11	FUSE HOLDER	0A	0V
	IC			
IC501	8-759-450-47	IC	BA05T	
IC502	8-759-520-49	IC	PQ30RV21	
IC504	6-700-898-01	IC	PQ05RD21	
IC505	8-759-653-07	IC	PQ09RD21	
IC508	8-759-246-70	IC	TA8216H	
IC509	8-759-246-70	IC	TA8216H	
IC901	8-759-450-47	IC	BA05T	
	CHIP CONDUCTOR			
JR501	1-216-864-11	SHORT CHIP		
JR502	1-216-864-11	SHORT CHIP		
JR509	1-216-864-11	SHORT CHIP		
JR510	1-216-864-11	SHORT CHIP		
JR511	1-216-864-11	SHORT CHIP		
JR512	1-216-864-11	SHORT CHIP		
JR513	1-216-864-11	SHORT CHIP		
JR514	1-216-864-11	SHORT CHIP		
JR515	1-216-864-11	SHORT CHIP		
JR516	1-216-864-11	SHORT CHIP		

REF. NO.	PART NO.	DESCRIPTION	VALUES	
	COIL			
L501	1-469-320-21	INDUCTOR	100µH	
L502	1-412-525-31	INDUCTOR	10µH	
L503	1-469-320-21	INDUCTOR	100µH	
L504	1-469-317-21	INDUCTOR	10µH	
L505	1-469-320-21	INDUCTOR	100µH	
L506	1-469-320-21	INDUCTOR	100µH	
L507	1-469-317-21	INDUCTOR	10µH	
L508	1-412-529-11	INDUCTOR	22µH	
⚠ L510	1-433-404-21	TRANSFORMER, LINE FILTER		
⚠ L511	1-433-404-21	TRANSFORMER, LINE FILTER		
L900	1-408-612-31	INDUCTOR	56µH	
	IC LINK			
⚠ PS501	1-532-984-11	IC LINK	2A	50V
⚠ PS502	1-532-984-11	IC LINK	2A	50V
PS900	1-532-637-00	IC LINK	1A	50V
PS901	1-532-637-00	IC LINK	1A	50V
	TRANSISTOR			
Q501	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q503	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q505	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q506	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q507	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q508	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q509	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q510	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q511	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q512	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q513	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q514	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q515	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q516	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q517	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q518	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q519	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q524	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q527	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q900	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	
Q901	8-729-422-27	TRANSISTOR	2SD601A-Q	

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q903	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q904	8-729-422-27	TRANSISTOR	2SD601A-Q		
	RESISTOR				
R501	1-216-864-11	SHORT CHIP			
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W
R505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R506	1-216-857-11	METAL CHIP	1M	5%	1/10W
R507	1-247-895-91	CARBON	470K	5%	1/4W
⚠ R508	1-219-512-11	METAL	2.2M	5%	1/2W
⚠ R509	1-244-270-11	CEMENTED	0.47	5%	20W
⚠ R510	1-244-270-11	CEMENTED	0.47	5%	20W
R511	1-216-849-11	METAL CHIP	220K	5%	1/10W
R512	1-216-849-11	METAL CHIP	220K	5%	1/10W
R513	1-216-833-11	METAL CHIP	10K	5%	1/10W
R515	1-216-833-11	METAL CHIP	10K	5%	1/10W
R516	1-216-857-11	METAL CHIP	1M	5%	1/10W
R517	1-216-805-11	METAL CHIP	47	5%	1/10W
R518	1-216-805-11	METAL CHIP	47	5%	1/10W
R519	1-216-839-11	METAL CHIP	33K	5%	1/10W
R520	1-216-837-11	METAL CHIP	22K	5%	1/10W
R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R524	1-216-833-11	METAL CHIP	10K	5%	1/10W
R525	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠ R527	1-216-341-11	METAL OXIDE	0.22	5%	1W
R528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R529	1-216-857-11	METAL CHIP	1M	5%	1/10W
R530	1-216-847-11	METAL CHIP	150K	5%	1/10W
R531	1-216-821-11	METAL CHIP	1K	5%	1/10W
R532	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R533	1-216-833-11	METAL CHIP	10K	5%	1/10W
R534	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R535	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
R536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R537	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R538	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R539	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R540	1-216-821-11	METAL CHIP	1K	5%	1/10W
R541	1-216-833-11	METAL CHIP	10K	5%	1/10W
R542	1-216-821-11	METAL CHIP	1K	5%	1/10W
R543	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R544	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R545	1-216-805-11	METAL CHIP	47	5%	1/10W
R546	1-216-805-11	METAL CHIP	47	5%	1/10W
R547	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R550	1-216-845-11	METAL CHIP	100K	5%	1/10W
R551	1-216-833-11	METAL CHIP	10K	5%	1/10W
R552	1-216-837-11	METAL CHIP	22K	5%	1/10W
R553	1-216-821-11	METAL CHIP	1K	5%	1/10W
R554	1-216-864-11	SHORT CHIP			
R555	1-216-833-11	METAL CHIP	10K	5%	1/10W
R556	1-216-839-11	METAL CHIP	33K	5%	1/10W
R557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R558	1-216-857-11	METAL CHIP	1M	5%	1/10W
R559	1-216-847-11	METAL CHIP	150K	5%	1/10W
R560	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R563	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R564	1-216-847-11	METAL CHIP	150K	5%	1/10W
R565	1-216-821-11	METAL CHIP	1K	5%	1/10W
R566	1-216-864-11	SHORT CHIP			
R567	1-216-864-11	SHORT CHIP			
R568	1-216-864-11	SHORT CHIP			
R569	1-216-864-11	SHORT CHIP			
R570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R572	1-216-809-11	METAL CHIP	100	5%	1/10W
R573	1-216-847-11	METAL CHIP	150K	5%	1/10W
R574	1-216-809-11	METAL CHIP	100	5%	1/10W
R575	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R576	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R577	1-216-821-11	METAL CHIP	1K	5%	1/10W
R578	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R579	1-216-821-11	METAL CHIP	1K	5%	1/10W
R580	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R584	1-216-813-11	METAL CHIP	220	5%	1/10W
R585	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R586	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W
R588	1-216-833-11	METAL CHIP	10K	5%	1/10W
R589	1-216-833-11	METAL CHIP	10K	5%	1/10W
R590	1-216-813-11	METAL CHIP	220	5%	1/10W
R591	1-216-821-11	METAL CHIP	1K	5%	1/10W
R592	1-216-833-11	METAL CHIP	10K	5%	1/10W
R595	1-216-813-11	METAL CHIP	220	5%	1/10W
R596	1-216-833-11	METAL CHIP	10K	5%	1/10W
R598	1-216-833-11	METAL CHIP	10K	5%	1/10W
R599	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R600	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R601	1-216-813-11	METAL CHIP	220	5%	1/10W
R602	1-216-833-11	METAL CHIP	10K	5%	1/10W
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R604	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R606	1-216-833-11	METAL CHIP	10K	5%	1/10W
R607	1-216-833-11	METAL CHIP	10K	5%	1/10W
R608	1-216-821-11	METAL CHIP	1K	5%	1/10W
R610	1-216-821-11	METAL CHIP	1K	5%	1/10W
R611	1-216-833-11	METAL CHIP	10K	5%	1/10W
R615	1-249-385-11	CARBON	2.2	5%	1/4W
R617	1-249-385-11	CARBON	2.2	5%	1/4W
R619	1-249-385-11	CARBON	2.2	5%	1/4W
R622	1-249-385-11	CARBON	2.2	5%	1/4W
R628	1-249-429-11	CARBON	10K	5%	1/4W
R629	1-249-429-11	CARBON	10K	5%	1/4W
R631	1-249-429-11	CARBON	10K	5%	1/4W
R632	1-249-429-11	CARBON	10K	5%	1/4W
R635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R643	1-216-864-11	SHORT CHIP			
R644	1-216-864-11	SHORT CHIP			
R646	1-216-864-11	SHORT CHIP			
R900	1-216-864-11	SHORT CHIP			
R904	1-216-393-00	METAL OXIDE	2.2	5%	3W
R909	1-216-843-11	METAL CHIP	68K	5%	1/10W
R910	1-216-833-11	METAL CHIP	10K	5%	1/10W
R911	1-216-833-11	METAL CHIP	10K	5%	1/10W
R912	1-216-385-11	METAL OXIDE	0.47	5%	3W
R913	1-216-845-11	METAL CHIP	100K	5%	1/10W
R915	1-215-886-11	METAL OXIDE	100	5%	2W
R918	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R920	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R921	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R922	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R927	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R930	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R933	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R939	1-216-805-11	METAL CHIP	47	5%	1/10W
R942	1-216-429-00	METAL OXIDE	270	5%	1W
R945	1-216-805-11	METAL CHIP	47	5%	1/10W
R948	1-216-833-11	METAL CHIP	10K	5%	1/10W
R949	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R950	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R951	1-216-833-11	METAL CHIP	10K	5%	1/10W
R954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R956	1-216-833-11	METAL CHIP	10K	5%	1/10W
R957	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R958	1-216-821-11	METAL CHIP	1K	5%	1/10W
R959	1-216-815-11	METAL CHIP	330	5%	1/10W
R960	1-216-821-11	METAL CHIP	1K	5%	1/10W

RELAY

⚠	RY501	1-755-389-11	RELAY (AC POWER)

TRANSFORMER

⚠	T502	1-437-697-11	TRANSFORMER, STANDBY

THERMISTOR

⚠	TH501	1-803-970-11	THERMISTOR, POSITIVE

TUNER

TU501	8-598-594-20	TUNER, FSS BTF-FA421
TU502	8-598-593-40	TUNER, FSS BTF-WA421

VARISTOR

⚠	VD501	1-804-992-21	VARISTOR

D

*	**A-1302-534-A**	**D BOARD, COMPLETE**
	3-710-578-01	COVER, VOLUME, 6 MOLD
	4-382-854-01	SCREW (M3X8), P, SW (+)
	4-382-854-21	SCREW (M3X14), P, SW (+)

The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. Order the following leads when requesting this D Board:

⚠	1-251-715-22	CAP ASSY, HIGH-VOLTAGE
⚠	1-900-805-19	WIRE ASSY, FOCUS HV
⚠	1-900-805-22	CONNECTOR ASSY, G2 HV

CAPACITOR

C5001	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5002	1-106-383-00	MYLAR	0.047µF	10%	200V
C5003	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V
C5004	1-106-383-00	MYLAR	0.047µF	10%	200V
C5005	1-126-235-11	ELECT	100µF	20%	16V
C5006	1-126-964-11	ELECT	10µF	20%	50V
C5007	1-126-941-11	ELECT	470µF	20%	25V
C5009	1-126-941-11	ELECT	470µF	20%	25V
C5010	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C5011	1-107-641-11	ELECT	220µF	20%	160V
C5012	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C5013	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5014	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C5016	1-130-783-71	MYLAR	0.33µF	10%	100V
C5017	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V
C5018	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5019	1-126-968-11	ELECT	100µF	20%	50V
C5020	1-104-665-11	ELECT	100µF	20%	25V
C5022	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C5024	1-102-038-00	CERAMIC	0.001µF		500V
C5028	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C5029	1-115-349-51	CERAMIC	0.01µF		2KV
C5030	1-137-365-11	MYLAR	0.0015µF	5%	50V
C5031	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C5032	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C5033	1-130-495-00	MYLAR	0.1µF	5%	50V
C5035	1-104-665-11	ELECT	100µF	20%	25V
C5036	1-126-941-11	ELECT	470µF	20%	25V
C5039	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C5040	1-126-935-11	ELECT	470µF	20%	16V
C5041	1-126-935-11	ELECT	470µF	20%	16V
C5044	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5045	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5046	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C5047	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C5048	1-162-953-11	CERAMIC CHIP	100pF	5%	50V
C5049	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5050	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5051	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5052	1-126-947-11	ELECT	47µF	20%	35V
C5053	1-106-220-00	MYLAR	0.1µF	10%	100V
C5054	1-104-666-11	ELECT	220µF	20%	25V
C5056	1-162-318-11	CERAMIC	0.001µF	10%	500V
C5058	1-162-116-00	CERAMIC	680pF	10%	2KV
C5059	1-162-116-00	CERAMIC	680pF	10%	2KV
C5060	1-137-417-11	MYLAR	0.015µF	10%	100V
C5061	1-117-833-21	FILM	5100pF	3%	1.5KV
C5064	1-117-665-11	FILM	0.33µF	5%	250V
C5065	1-117-664-11	FILM	0.27µF	5%	250V
C5066	1-109-921-11	CERAMIC	0.0015µF	10%	500V
C5070	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5071	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5074	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5075	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5076	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5077	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5078	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C5079	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C5082	1-117-832-21	FILM	4700pF	3%	1.5KV
C5084	1-126-941-11	ELECT	470µF	20%	25V
C5086	1-126-941-11	ELECT	470µF	20%	25V
C5502	1-126-941-11	ELECT	470µF	20%	25V
C5504	1-126-947-11	ELECT	47µF	20%	35V
C5505	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5506	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C5511	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5512	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C5513	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C5514	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5515	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5516	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5517	1-129-716-00	FILM	0.015µF	5%	400V
C5518	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5519	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C5520	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5521	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5522	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C5523	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5524	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5526	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V
C5527	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5528	1-129-709-91	FILM	0.0039µF	5%	630V
C5529	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5530	1-136-167-00	FILM	0.15µF	5%	50V
C5531	1-130-495-00	MYLAR	0.1µF	5%	50V
C5533	1-126-961-11	ELECT	2.2µF	20%	50V
C5534	1-126-947-11	ELECT	47µF	20%	35V
C5535	1-126-947-11	ELECT	47µF	20%	35V
C5540	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5548	1-137-194-81	FILM	0.47µF	5%	50V
C5550	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5551	1-126-947-11	ELECT	47µF	20%	35V
C5552	1-126-947-11	ELECT	47µF	20%	35V
C5598	1-126-947-11	ELECT	47µF	20%	35V
C5609	1-104-665-11	ELECT	100µF	20%	25V
C5623	1-104-665-11	ELECT	100µF	20%	25V
C6502	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6503	1-131-940-11	ELECT	1200µF	20%	250V
C6507	1-130-495-00	MYLAR	0.1µF	5%	50V
C6508	1-126-947-11	ELECT	47µF	20%	35V
C6510	1-130-495-00	MYLAR	0.1µF	5%	50V
C6511	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6513	1-126-940-11	ELECT	330µF	20%	25V
C6514	1-126-767-11	ELECT	1000µF	20%	16V
C6515	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6516	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6517	1-126-963-11	ELECT	4.7µF	20%	50V
C6518	1-136-479-11	FILM	0.001µF	5%	100V
C6519	1-126-964-11	ELECT	10µF	20%	50V
C6525	1-125-969-91	CERAMIC	680pF	10%	1KV
C6526	1-125-969-91	CERAMIC	680pF	10%	1KV
C6532	1-137-741-22	FILM	39000pF	3%	800V
C6546	1-126-974-11	ELECT	3300µF	20%	50V
C6549	1-126-969-11	ELECT	220µF	20%	50V
C6550	1-126-968-11	ELECT	100µF	20%	50V
C6551	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C6552	1-126-937-11	ELECT	4700µF	20%	16V
C6554	1-126-768-11	ELECT	2200µF	20%	16V
C6555	1-104-665-11	ELECT	100µF	20%	25V
C6556	1-123-024-21	ELECT	33µF		160V
C6557	1-107-654-11	ELECT	33µF	20%	250V
C6558	1-126-967-11	ELECT	47µF	20%	50V
C6559	1-126-942-61	ELECT	1000µF	20%	25V
C6584	1-165-528-11	MYLAR	0.1µF	10	275V
C6590	1-131-940-11	ELECT	1200µF	20%	250V
⚠ C6592	1-119-898-51	CERAMIC	470pF	10%	250V
C6593	1-126-768-11	ELECT	2200µF	20%	16V
C6595	1-104-666-11	ELECT	220µF	20%	25V
C6596	1-126-960-11	ELECT	1µF	20%	50V
C6597	1-126-943-11	ELECT	2200µF	20%	25V
C8001	1-126-964-11	ELECT	10µF	20%	50V
C8002	1-126-964-11	ELECT	10µF	20%	50V
C8003	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8005	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8006	1-126-960-11	ELECT	1µF	20%	50V
C8007	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C8012	1-126-947-11	ELECT	47µF	20%	35V
C8015	1-126-947-11	ELECT	47µF	20%	35V
C8016	1-130-495-00	MYLAR	0.1µF	5%	50V
C8017	1-126-964-11	ELECT	10µF	20%	50V
C8018	1-126-964-11	ELECT	10µF	20%	50V
C8020	1-130-495-00	MYLAR	0.1µF	5%	50V
C8021	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C8024	1-126-967-11	ELECT	47µF	20%	50V
C8025	1-126-947-11	ELECT	47µF	20%	35V
C8027	1-130-495-00	MYLAR	0.1µF	5%	50V
C8028	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C8030	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C8031	1-128-551-11	ELECT	22µF	20%	63V
C8032	1-136-813-11	FILM	680pF	5%	100V
C8033	1-126-964-11	ELECT	10µF	20%	50V
C8035	1-162-115-00	CERAMIC	330pF	10%	1KV
C8036	1-162-115-00	CERAMIC	330pF	10%	1KV
C8037	1-165-953-11	FILM	47000pF	3%	800V
C8040	1-126-969-11	ELECT	220µF	20%	50V
C8041	1-130-495-00	MYLAR	0.1µF	5%	50V
C8042	1-136-189-00	MYLAR	0.1µF	10%	250V
C8045	1-130-471-00	MYLAR	0.001µF	5%	50V
C8048	1-130-495-00	MYLAR	0.1µF	5%	50V
C8050	1-100-122-31	FILM	0.022µF	5%	400V
C8051	1-126-964-11	ELECT	10µF	20%	50V
C8052	1-104-665-11	ELECT	100µF	20%	25V
C8053	1-162-117-00	CERAMIC	100pF	10%	500V
C8054	1-102-244-00	CERAMIC	220pF	10%	500V
C8055	1-100-144-31	FILM	0.0068µF	5%	630V
C8056	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8058	1-137-194-81	FILM	0.47µF	5%	50V
C8059	1-126-947-11	ELECT	47µF	20%	35V
C8060	1-106-371-00	MYLAR	0.015µF	99%	200V
C8063	1-165-607-91	FILM	10000pF	3%	800V
C8065	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C8073	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C8074	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8075	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8076	1-126-963-11	ELECT	4.7µF	20%	50V
C8077	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8079	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V

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	REF. NO.	PART NO.	DESCRIPTION	VALUES
	C8139	1-162-966-11	CERAMIC CHIP	0.0022µF 10% 50V
		CONNECTOR		
*	CN5001	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN5002	1-580-798-11	CONNECTOR PIN (DY)	6P
*	CN5003	1-564-507-11	PLUG, CONNECTOR	4P
*	CN5009	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN5011	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN5509	1-564-515-11	PLUG, CONNECTOR	12P
*	CN6502	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P
*	CN6503	1-564-508-11	PLUG, CONNECTOR	5P
*	CN6504	1-564-515-11	PLUG, CONNECTOR	12P
*	CN6506	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
		DIODE		
	D5001	8-719-083-60	DIODE	UDZSTE-174.7B
	D5002	8-719-908-03	DIODE	GP08D
	D5003	8-719-028-45	DIODE	D2L20U
	D5004	8-719-083-82	DIODE	UDZS-TE17-12B
	D5005	8-719-404-50	DIODE	MA111-TX
	D5006	8-719-404-50	DIODE	MA111-TX
	D5007	8-719-404-50	DIODE	MA111-TX
	D5008	8-719-404-50	DIODE	MA111-TX
	D5010	8-719-404-50	DIODE	MA111-TX
	D5011	8-719-109-63	DIODE	RD3.0ESB2
	D5014	8-719-075-66	DIODE	D5LC20U-4012
	D5016	8-719-028-45	DIODE	D2L20U
	D5017	8-719-028-45	DIODE	D2L20U
	D5018	8-719-083-83	DIODE	UDZS-TE17-15B
	D5019	8-719-404-50	DIODE	MA111-TX
	D5023	8-719-061-21	DIODE	FMQ-G5FMS
	D5027	8-719-404-50	DIODE	MA111-TX
	D5028	8-719-404-50	DIODE	MA111-TX
	D5032	8-719-404-50	DIODE	MA111-TX
	D5035	8-719-302-43	DIODE	EL1Z
	D5036	8-719-302-43	DIODE	EL1Z
	D5501	8-719-404-50	DIODE	MA111-TX
	D5502	8-719-404-50	DIODE	MA111-TX
	D5504	8-719-404-50	DIODE	MA111-TX
	D5506	8-719-404-50	DIODE	MA111-TX
	D5508	8-719-404-50	DIODE	MA111-TX
	D5511	8-719-062-51	DIODE	1PS226-115

REF. NO.	PART NO.	DESCRIPTION	VALUES
D5512	8-719-062-51	DIODE	1PS226-115
D5513	8-719-404-50	DIODE	MA111-TX
D5514	8-719-060-90	DIODE	S2L60F
D5515	8-719-404-50	DIODE	MA111-TX
D6502	8-719-979-64	DIODE	µF4005PKG23
D6504	8-719-075-66	DIODE	D5LC20U-4012
D6505	8-719-404-50	DIODE	MA111-TX
D6508	8-719-982-27	DIODE	MTZJ-33C
D6509	8-719-068-00	DIODE	ERC04-06SE
D6510	8-719-068-00	DIODE	ERC04-06SE
D6513	8-719-510-12	DIODE	D10SC4M
D6514	8-719-060-89	DIODE	D4SBS6-F
D6516	8-719-075-66	DIODE	D5LC20U-4012
D6518	8-719-052-90	DIODE	D1NL40-TA2
D6519	8-719-063-74	DIODE	D1NL20U-TR2
D6520	8-719-063-74	DIODE	D1NL20U-TR2
D6521	8-719-404-50	DIODE	MA111-TX
D6523	8-719-060-89	DIODE	D4SBS6-F
D6524	8-719-062-40	DIODE	D4SBL20µF3
D6530	8-719-510-53	DIODE	D4SB60L
D6532	8-719-948-45	DIODE	ERA22-08
D6533	8-719-404-50	DIODE	MA111-TX
D6534	8-719-404-50	DIODE	MA111-TX
D6537	8-719-404-50	DIODE	MA111-TX
D6538	8-719-109-85	DIODE	RD5.1ESB2
D8001	8-719-404-50	DIODE	MA111-TX
D8003	8-719-404-50	DIODE	MA111-TX
D8005	8-719-404-50	DIODE	MA111-TX
D8006	8-719-063-74	DIODE	D1NL20U-TR2
D8007	8-719-404-50	DIODE	MA111-TX
D8009	8-719-083-83	DIODE	UDZS-TE17-15B
D8010	8-719-979-64	DIODE	µF4005PKG23
D8011	8-719-110-41	DIODE	RD15ESB2
D8012	8-719-110-41	DIODE	RD15ESB2
D8013	8-719-083-83	DIODE	UDZS-TE17-15B
D8014	8-719-083-83	DIODE	UDZS-TE17-15B
D8015	8-719-404-50	DIODE	MA111-TX
D8016	8-719-948-45	DIODE	ERA22-08
D8017	8-719-948-45	DIODE	ERA22-08
D8018	8-719-948-45	DIODE	ERA22-08
D8022	8-719-063-74	DIODE	D1NL20U-TR2
D8023	8-719-109-85	DIODE	RD5.1ESB2
D8024	8-719-109-93	DIODE	RD6.2ESB2
D8026	8-719-404-50	DIODE	MA111-TX

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REF. NO.	PART NO.	DESCRIPTION	VALUES
D8028	8-719-069-54	DIODE	UDZSTE-175.1B
D8030	8-719-083-66	DIODE	UDZSTE-1718B
D8034	8-719-921-63	DIODE	MTZJ-7.5B
D8140	8-719-404-50	DIODE	MA111-TX
	FERRITE BEAD		
FB5001	1-410-397-21	FERRITE	1.1µH
FB5002	1-543-298-11	FERRITE	0µH
FB5003	1-410-397-21	FERRITE	1.1µH
FB6501	1-410-397-21	FERRITE	1.1µH
FB6508	1-410-396-41	FERRITE	0.45µH
FB6509	1-410-396-41	FERRITE	0.45µH
FB6519	1-410-397-21	FERRITE	1.1µH
FB6520	1-412-911-11	FERRITE	0µH
FB6521	1-412-911-11	FERRITE	0µH
FB8001	1-412-911-11	FERRITE	0µH
FB8002	1-412-911-11	FERRITE	0µH
	IC		
IC5001	8-759-701-01	IC	NJM2904M
IC5002	8-759-700-07	IC	NJM2903M
IC5003	8-759-701-01	IC	NJM2904M
IC5004	8-759-696-71	IC	STV9379A
IC5005	8-759-803-42	IC	LA6500-FA
IC5006	8-749-013-76	IC	PQ6RD83B
IC5007	8-759-981-61	IC	LM2901M
IC5502	8-759-981-61	IC	LM2901M
IC5504	8-759-803-42	IC	LA6500-FA
IC5506	8-759-803-42	IC	LA6500-FA
IC5511	8-759-701-01	IC	NJM2904M
IC5512	8-759-929-65	IC	LM7912CT
IC5515	8-759-701-01	IC	NJM2904M
IC6500	8-759-347-19	IC	KIA7812PI
IC6501	6-703-355-01	IC	MCZ3001DA
IC6502	8-759-518-68	IC	PQ12RF21
IC6503	8-749-012-13	IC	DM-58
IC6505	8-749-921-86	IC	SE-140N
IC8001	8-759-700-07	IC	NJM2903M
IC8002	6-703-355-01	IC	MCZ3001DA
IC8004	8-759-701-01	IC	NJM2904M
IC8005	8-759-198-31	IC	UPC1093J-1-T
IC8006	8-759-700-07	IC	NJM2903M
IC8104	8-759-586-17	IC	TL1431CZ-AP

REF. NO.	PART NO.	DESCRIPTION	VALUES
	CHIP CONDUCTOR		
JR5000	1-216-864-11	SHORT CHIP	
JR5001	1-216-864-11	SHORT CHIP	
JR5002	1-216-864-11	SHORT CHIP	
JR5003	1-216-864-11	SHORT CHIP	
JR5004	1-216-864-11	SHORT CHIP	
JR5005	1-216-864-11	SHORT CHIP	
JR5006	1-216-864-11	SHORT CHIP	
JR5007	1-216-864-11	SHORT CHIP	
JR5008	1-216-864-11	SHORT CHIP	
JR5009	1-216-864-11	SHORT CHIP	
JR5010	1-216-864-11	SHORT CHIP	
JR5011	1-216-864-11	SHORT CHIP	
JR5012	1-216-864-11	SHORT CHIP	
JR5013	1-216-864-11	SHORT CHIP	
JR5014	1-216-864-11	SHORT CHIP	
JR5015	1-216-864-11	SHORT CHIP	
JR5016	1-216-864-11	SHORT CHIP	
JR5017	1-216-864-11	SHORT CHIP	
JR5501	1-216-864-11	SHORT CHIP	
JR5504	1-216-864-11	SHORT CHIP	
JR5505	1-216-864-11	SHORT CHIP	
JR8000	1-216-864-11	SHORT CHIP	
JR8001	1-216-864-11	SHORT CHIP	
JR8002	1-216-864-11	SHORT CHIP	
JR8003	1-216-864-11	SHORT CHIP	
JR8005	1-216-864-11	SHORT CHIP	
JR8006	1-216-864-11	SHORT CHIP	
JR8007	1-216-864-11	SHORT CHIP	
JR8051	1-216-864-11	SHORT CHIP	
	COIL		
L5001	1-406-665-11	INDUCTOR	100µH
L5003	1-428-932-11	INDUCTOR	4MH
L5005	1-424-997-11	COIL, HORIZONTAL LINEARITY	
L5504	1-406-987-21	INDUCTOR	4.7MH
L5505	1-406-989-21	INDUCTOR	10MH
L5506	1-406-987-21	INDUCTOR	4.7MH
L6501	1-412-525-31	INDUCTOR	10µH
L6502	1-412-525-31	INDUCTOR	10µH
L6503	1-412-525-31	INDUCTOR	10µH
L6505	1-406-665-11	INDUCTOR	100µH

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NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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REF. NO.	PART NO.	DESCRIPTION	VALUES
L6506	1-412-525-31	INDUCTOR	10µH
L6507	1-412-525-31	INDUCTOR	10µH
L6510	1-412-523-41	INDUCTOR	6.8µH
L6511	1-412-523-41	INDUCTOR	6.8µH
L6514	1-412-525-31	INDUCTOR	10µH
L6517	1-412-521-31	INDUCTOR	4.7µH
L6518	1-412-521-31	INDUCTOR	4.7µH
L8002	1-428-950-11	INDUCTOR	125µH
L8005	1-406-670-11	INDUCTOR	680µH
	PHOTO COUPLER		
PH6501	8-749-016-81	PHOTO COUPLER	PC123Y22
⚠ PH6502	8-749-016-81	PHOTO COUPLER	PC123Y22
PH8001	8-749-016-81	PHOTO COUPLER	PC123Y22
PH8003	8-749-016-81	PHOTO COUPLER	PC123Y22
PH8004	8-749-016-81	PHOTO COUPLER	PC123Y22
	IC LINK		
PS6505	1-576-288-41	IC LINK	10A 90V
PS6506	1-576-288-41	IC LINK	10A 90V
PS6550	1-576-288-41	IC LINK	10A 90V
	TRANSISTOR		
Q5001	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5002	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5003	8-729-027-97	TRANSISTOR	IRFI9630G-LF
Q5004	8-729-019-57	TRANSISTOR	2SA1208S-TP
Q5005	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5006	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5007	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5009	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5010	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5011	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5012	8-729-119-80	TRANSISTOR	2SC2688-LK
Q5013	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5014	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5015	8-729-046-80	TRANSISTOR	2SC4634LS-CB11
Q5018	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5019	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5020	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5021	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5022	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5023	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5024	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5025	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5026	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5027	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5028	8-729-038-83	TRANSISTOR	2SK2251-01-F19
Q5030	6-550-168-01	TRANSISTOR	2SC5682-RB
Q5031	8-729-048-49	TRANSISTOR	2SK3262-01MR-F119
Q5035	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5036	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5501	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5502	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5503	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5505	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5506	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5507	8-729-052-29	TRANSISTOR	2SK2876-01MR-F122
Q5510	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5512	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5513	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5568	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5569	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q6506	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q6507	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q6522	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q6527	8-729-422-27	TRANSISTOR	2SD601A-Q
Q6530	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q6532	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8003	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8004	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8007	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q8013	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q8014	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q8015	8-729-119-80	TRANSISTOR	2SC2688-LK
Q8016	8-729-045-65	TRANSISTOR	2SA1776TV2Q
Q8018	8-729-043-95	TRANSISTOR	2SC3840(3)
Q8019	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8020	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8021	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q8022	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q8023	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8028	8-729-422-27	TRANSISTOR	2SD601A-Q

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q8034	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q8035	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
	RESISTOR				
R5001	1-216-797-11	METAL CHIP	10	5%	1/10W
R5002	1-216-813-11	METAL CHIP	220	5%	1/10W
R5003	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5004	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5005	1-216-813-11	METAL CHIP	220	5%	1/10W
R5007	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5008	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5009	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5010	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5011	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5012	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5013	1-216-373-11	METAL OXIDE	2.2	5%	2W
R5014	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W
R5015	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5016	1-208-834-11	METAL CHIP	150K	0.50%	1/10W
R5017	1-208-834-11	METAL CHIP	150K	0.50%	1/10W
R5018	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5019	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5020	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R5023	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5024	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5025	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R5026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5027	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5028	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5029	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5030	1-216-864-11	SHORT CHIP			
R5031	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5033	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5035	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R5036	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5037	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5038	1-216-834-11	METAL CHIP	12K	5%	1/10W
R5040	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R5041	1-249-383-11	CARBON	1.5	5%	1/4W
R5042	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5043	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5044	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5045	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5046	1-214-798-21	METAL	1.8	1%	1/2W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5047	1-249-421-11	CARBON	2.2K	5%	1/4W
R5048	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5051	1-249-414-11	CARBON	560	5%	1/4W
R5052	1-214-796-00	METAL	1.5	1%	1/2W
R5053	1-215-892-11	METAL OXIDE	1K	5%	2W
R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5061	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5062	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5063	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
R5064	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R5065	1-218-749-11	METAL CHIP	240K	0.50%	1/10W
R5066	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R5068	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5069	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5070	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R5071	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R5072	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5073	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5074	1-260-328-11	CARBON	1K	5%	1/2W
R5076	1-215-900-11	METAL OXIDE	22K	5%	2W
R5077	1-215-900-11	METAL OXIDE	22K	5%	2W
R5078	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R5079	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R5080	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5081	1-218-728-11	METAL CHIP	33K	0.50%	1/10W
R5082	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5083	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R5084	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5085	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5086	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5087	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5090	1-216-369-00	METAL OXIDE	1	5%	2W
R5091	1-249-389-11	CARBON	4.7	5%	1/4W
R5092	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5093	1-218-717-11	METAL CHIP	11K	0.50%	1/10W
R5095	1-249-377-11	CARBON	0.47	5%	1/4W
R5096	1-249-377-11	CARBON	0.47	5%	1/4W
R5097	1-249-380-11	CARBON	0.82	5%	1/4W
R5098	1-249-379-11	CARBON	0.68	5%	1/4W
R5101	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5102	1-218-692-11	METAL CHIP	1K	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5103	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R5104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5107	1-249-393-11	CARBON	10	5%	1/4W
R5108	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
R5109	1-218-728-11	METAL CHIP	33K	0.50%	1/10W
R5110	1-249-401-11	CARBON	47	5%	1/4W
R5111	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R5112	1-216-813-11	METAL CHIP	220	5%	1/10W
R5113	1-260-107-11	CARBON	4.7K	5%	1/2W
R5115	1-249-417-11	CARBON	1K	5%	1/4W
R5116	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5118	1-216-797-11	METAL CHIP	10	5%	1/10W
R5120	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5124	1-216-809-11	METAL CHIP	100	5%	1/10W
R5125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5126	1-216-809-11	METAL CHIP	100	5%	1/10W
R5127	1-215-892-11	METAL OXIDE	1K	5%	2W
R5128	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5129	1-216-809-11	METAL CHIP	100	5%	1/10W
R5130	1-216-797-11	METAL CHIP	10	5%	1/10W
R5131	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R5132	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R5133	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R5135	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R5136	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R5137	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5138	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5139	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5141	1-215-890-11	METAL OXIDE	470	5%	2W
R5142	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5143	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5144	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5145	1-215-880-00	METAL OXIDE	10	5%	2W
R5146	1-249-437-11	CARBON	47K	5%	1/4W
R5147	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R5148	1-215-865-11	METAL OXIDE	220	5%	1W
R5150	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5151	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5153	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5154	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5160	1-216-809-11	METAL CHIP	100	5%	1/10W
R5163	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5164	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5165	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5170	1-215-896-00	METAL OXIDE	4.7K	5%	2W
R5171	1-215-896-00	METAL OXIDE	4.7K	5%	2W
R5172	1-260-288-11	CARBON	0.47	5%	1/2W
R5173	1-260-288-11	CARBON	0.47	5%	1/2W
R5176	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5501	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5502	1-216-864-11	SHORT CHIP			
R5503	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5505	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5507	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5508	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5518	1-218-728-11	METAL CHIP	33K	0.50%	1/10W
R5519	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5520	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5522	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5523	1-218-744-11	METAL CHIP	150K	0.50%	1/10W
R5524	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5525	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5526	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5527	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5529	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5533	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5535	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5537	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5538	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5539	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5540	1-214-800-11	METAL	2.2	1%	1/2W
R5541	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5542	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5544	1-218-716-11	METAL CHIP	10K	0.50%	1/10W

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NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5545	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5546	1-216-864-11	SHORT CHIP			
R5547	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5548	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5549	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5553	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5554	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5555	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5556	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5557	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5558	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5559	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R5560	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5561	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5562	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
R5565	1-249-377-11	CARBON	0.47	5%	1/4W
R5566	1-249-401-11	CARBON	47	5%	1/4W
R5567	1-216-809-11	METAL CHIP	100	5%	1/10W
R5568	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5569	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5571	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5576	1-249-395-11	CARBON	15	5%	1/4W
R5578	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
R5579	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5580	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5581	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5589	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5590	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
R5591	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5592	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5593	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5594	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5597	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5603	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5604	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5711	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5712	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R6501	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R6502	1-260-131-11	CARBON	470K	5%	1/2W
R6503	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6505	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R6507	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6508	1-249-393-11	CARBON	10	5%	1/4W
R6509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6510	1-249-393-11	CARBON	10	5%	1/4W
R6511	1-260-298-51	CARBON	3.3	5%	1/2W
R6513	1-215-481-00	METAL	330K	1%	1/4W
R6514	1-215-481-00	METAL	330K	1%	1/4W
R6515	1-260-131-11	CARBON	470K	5%	1/2W
⚠ R6516	1-244-207-11	WIREWOUND	3.3	5%	10W
R6517	1-218-715-11	METAL CHIP	9.1K	0.50%	1/10W
R6518	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R6519	1-216-864-11	SHORT CHIP			
R6521	1-260-328-11	CARBON	1K	5%	1/2W
R6524	1-216-864-11	SHORT CHIP			
R6525	1-216-817-11	METAL CHIP	470	5%	1/10W
R6526	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6527	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6528	1-216-809-11	METAL CHIP	100	5%	1/10W
R6529	1-249-393-11	CARBON	10	5%	1/4W
R6530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6531	1-249-393-11	CARBON	10	5%	1/4W
R6532	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6533	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6536	1-249-417-11	CARBON	1K	5%	1/4W
R6537	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6538	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6539	1-215-900-11	METAL OXIDE	22K	5%	2W
R6542	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6544	1-216-864-11	SHORT CHIP			
R6545	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6547	1-216-864-11	SHORT CHIP			
R6548	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R6556	1-243-979-71	METAL OXIDE	0.1	5%	2W
R6557	1-243-979-71	METAL OXIDE	0.1	5%	2W
⚠ R6590	1-249-415-11	CARBON	680	5%	1/4W
R6593	1-249-405-11	CARBON	100	5%	1/4W
R6595	1-249-377-11	CARBON	0.47	5%	1/4W
R6602	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6605	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6646	1-215-481-00	METAL	330K	1%	1/4W

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D

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8001	1-216-809-11	METAL CHIP	100	5%	1/10W
R8003	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8004	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R8005	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8006	1-219-512-11	METAL	2.2M	5%	1/2W
R8007	1-219-512-11	METAL	2.2M	5%	1/2W
R8010	1-216-864-11	SHORT CHIP			
R8011	1-216-849-11	METAL CHIP	220K	5%	1/10W
R8012	1-249-419-11	CARBON	1.5K	5%	1/4W
R8013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8014	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R8015	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R8016	1-247-843-11	CARBON	3.3K	5%	1/4W
R8017	1-218-703-11	METAL CHIP	3K	0.50%	1/10W
⚠ R8019	1-218-742-11	METAL CHIP	120K	0.50%	1/10W
R8020	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8024	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8025	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8026	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W
R8027	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
R8028	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R8029	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
R8030	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8031	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8032	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8033	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠ R8035	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
⚠ R8036	1-215-419-00	METAL	820	1%	1/4W
⚠ R8037	1-215-447-00	METAL	12K	1%	1/4W
⚠ R8038	1-215-447-00	METAL	12K	1%	1/4W
⚠ R8039	1-215-447-00	METAL	12K	1%	1/4W
⚠ R8040	1-215-443-00	METAL	8.2K	1%	1/4W
R8041	1-216-864-11	SHORT CHIP			
⚠ R8043	1-215-447-00	METAL	12K	1%	1/4W
⚠ R8046	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R8047	1-216-341-11	METAL OXIDE	0.22	5%	1W
R8049	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R8050	1-218-656-11	METAL CHIP	33	0.50%	1/10W
R8051	1-202-933-61	FUSIBLE	0.1	10%	1/2W
⚠ R8052	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R8053	1-215-481-00	METAL	330K	1%	1/4W
R8054	1-215-481-00	METAL	330K	1%	1/4W
R8055	1-215-480-00	METAL	300K	1%	1/4W
R8056	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W
R8057	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R8058	1-249-393-11	CARBON	10	5%	1/4W
R8059	1-216-864-11	SHORT CHIP			
R8060	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R8061	1-249-393-11	CARBON	10	5%	1/4W
R8062	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8063	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8066	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8069	1-249-425-11	CARBON	4.7K	5%	1/4W
R8070	1-243-979-71	METAL OXIDE	0.1	5%	2W
R8072	1-249-377-11	CARBON	0.47	5%	1/4W
R8076	1-240-931-91	METAL	330	5%	0.5W
R8077	1-216-864-11	SHORT CHIP			
⚠ R8078	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8079	1-249-431-11	CARBON	15K	5%	1/4W
R8080	1-249-401-11	CARBON	47	5%	1/4W
R8082	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R8085	1-219-749-91	METAL	10K	5%	1/2W
R8086	1-219-751-91	METAL	47K	5%	1/2W
R8087	1-216-864-11	SHORT CHIP			
R8088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8089	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8090	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8091	1-215-485-00	METAL	470K	1%	1/4W
R8093	1-208-834-11	METAL CHIP	150K	0.50%	1/10W
R8095	1-215-485-00	METAL	470K	1%	1/4W
R8096	1-216-864-11	SHORT CHIP			
R8097	1-216-797-11	METAL CHIP	10	5%	1/10W
R8101	1-208-834-11	METAL CHIP	150K	0.50%	1/10W
R8102	1-249-433-11	CARBON	22K	5%	1/4W
R8103	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R8104	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8105	1-216-809-11	METAL CHIP	100	5%	1/10W
R8106	1-249-377-11	CARBON	0.47	5%	1/4W
R8108	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8109	1-215-918-00	METAL OXIDE	1.5K	5%	3W
R8110	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8111	1-215-918-00	METAL OXIDE	1.5K	5%	3W
R8112	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8113	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8114	1-215-918-00	METAL OXIDE	1.5K	5%	3W
R8115	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8116	1-215-918-00	METAL OXIDE	1.5K	5%	3W

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NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

A component identified by this ⋈ symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

D CX

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8117	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8118	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8119	1-215-918-00	METAL OXIDE	1.5K	5%	3W
R8123	1-216-809-11	METAL CHIP	100	5%	1/10W
R8124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8125	1-216-797-11	METAL CHIP	10	5%	1/10W
R8126	1-216-797-11	METAL CHIP	10	5%	1/10W
R8135	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8136	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8137	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8138	1-216-857-11	METAL CHIP	1M	5%	1/10W
R8144	1-216-849-11	METAL CHIP	220K	5%	1/10W
R8145	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8146	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8150	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8151	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8158	1-216-809-11	METAL CHIP	100	5%	1/10W
R8159	1-216-835-11	METAL CHIP	15K	5%	1/10W
R8160	1-216-853-11	METAL CHIP	470K	5%	1/10W
R8161	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠ R8165	1-218-742-11	METAL CHIP	120K	0.50%	1/10W
R8200	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8206	1-216-817-11	METAL CHIP	470	5%	1/10W

VARIABLE RESISTOR

⋈ ⚠ RV8002	1-225-627-91	RES, VAR, ADJ, CERMET	2K	

RELAY

⚠ RY6501	1-755-395-11	RELAY (AC POWER)		
⚠ RY6502	1-755-389-11	RELAY (AC POWER)		

SPARK GAP

SG8002	1-517-499-21	GAP, SPARK		

TRANSFORMER

T5001	1-437-523-41	TRANSFORMER, HORIZONTAL OUTPUT		
T5002	1-435-636-31	TRANSFORMER, HORIZONTAL DRIVE		
⚠ T6502	1-437-696-31	TRANSFORMER, CONVERTER		

REF. NO.	PART NO.	DESCRIPTION	VALUES		
⚠ T8001	1-453-387-21	FBT ASSY NX-6020//M3J4			
T8004	1-439-991-11	DYNAMIC FOCUS TRANSFORMER(DFT)			

THERMISTOR

TH5002	1-807-796-11	THERMISTOR			

CX

*	**A-1400-562-A**	**CX BOARD, MOUNTED**			
	4-382-854-11	SCREW (M3X10), P, SW (+)			

CAPACITOR

C9004	1-115-350-51	CERAMIC	0.0047µF		2KV
C9009	1-163-104-00	CERAMIC CHIP	30pF	5%	50V
C9010	1-163-104-00	CERAMIC CHIP	30pF	5%	50V
C9011	1-161-830-00	CERAMIC	0.0047µF		500V
C9012	1-161-830-00	CERAMIC	0.0047µF		500V
C9013	1-163-035-00	CERAMIC CHIP	0.047µF		50V
C9014	1-161-830-00	CERAMIC	0.0047µF		500V
C9015	1-163-104-00	CERAMIC CHIP	30pF	5%	50V
C9018	1-107-961-91	ELECT	10µF	20%	250V
C9019	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9020	1-107-961-91	ELECT	10µF	20%	250V
C9021	1-107-961-91	ELECT	10µF	20%	250V
C9022	1-101-006-00	CERAMIC	0.047µF		50V
C9023	1-101-006-00	CERAMIC	0.047µF		50V
C9024	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9025	1-104-653-11	ELECT	220µF	20%	16V
C9026	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9027	1-101-006-00	CERAMIC	0.047µF		50V
C9031	1-115-349-51	CERAMIC	0.01µF		2KV
C9032	1-162-116-00	CERAMIC	680pF	10%	2KV
C9033	1-107-662-11	ELECT	22µF	20%	350V
C9036	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C9042	1-128-527-11	ELECT	330µF	20%	25V
C9044	1-126-934-11	ELECT	220µF	20%	16V
C9045	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9046	1-126-933-11	ELECT	100µF	20%	16V
C9048	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9049	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9050	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9051	1-165-319-11	CERAMIC CHIP	0.1µF		50V

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CX

	REF. NO.	PART NO.	DESCRIPTION	VALUES
		CONNECTOR		
*	CN9001	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P
*	CN9002	1-564-507-11	PLUG, CONNECTOR	4P
	CN9003	1-695-915-11	TAB (CONTACT)	
	CN9004	1-695-915-11	TAB (CONTACT)	
	CN9009	1-785-879-11	CONNECTOR, ONE TOUCH	
		DIODE		
	D9005	8-719-404-50	DIODE	MA111-TX
	D9006	8-719-051-85	DIODE	HSS83TD
	D9007	8-719-051-85	DIODE	HSS83TD
	D9008	8-719-051-85	DIODE	HSS83TD
	D9009	8-719-908-03	DIODE	GP08D
	D9010	8-719-110-17	DIODE	RD10ESB2
		IC		
	IC9001	8-759-680-01	IC	TDA6120Q/N2/S1
	IC9002	8-759-680-01	IC	TDA6120Q/N2/S1
	IC9003	8-759-680-01	IC	TDA6120Q/N2/S1
		JACK		
⚠	J9001	1-451-544-11	SOCKET, CRT	
		COIL		
	L9002	1-408-592-11	INDUCTOR	1.2µH
	L9003	1-408-592-11	INDUCTOR	1.2µH
	L9004	1-408-592-11	INDUCTOR	1.2µH
	L9005	1-406-666-21	INDUCTOR	150µH
	L9006	1-412-526-11	INDUCTOR	12µH
		NEON LAMP		
	NL9003	1-519-421-11	GAP, DISCHARGE	
		TRANSISTOR		
	Q9001	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
	Q9003	8-729-422-27	TRANSISTOR	2SD601A-Q
	Q9004	8-729-422-27	TRANSISTOR	2SD601A-Q
	Q9005	8-729-422-27	TRANSISTOR	2SD601A-Q
	Q9007	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
	Q9009	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
	Q9010	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
	Q9011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
	Q9013	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
	Q9014	8-729-823-81	TRANSISTOR	2SC4632LS-CB7
	Q9015	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
		RESISTOR		
	R9001	1-216-633-11	METAL CHIP	180 0.50% 1/10W
	R9006	1-216-073-91	RES-CHIP	10K 5% 1/10W
	R9007	1-208-783-11	METAL CHIP	1.1K 0.50% 1/10W
	R9012	1-216-295-91	SHORT CHIP	
	R9013	1-216-049-11	RES-CHIP	1K 5% 1/10W
	R9014	1-216-033-00	RES-CHIP	220 5% 1/10W
	R9015	1-249-409-11	CARBON	220 5% 1/4W
	R9016	1-216-033-00	RES-CHIP	220 5% 1/10W
	R9018	1-216-633-11	METAL CHIP	180 0.50% 1/10W
	R9019	1-216-633-11	METAL CHIP	180 0.50% 1/10W
	R9020	1-216-025-11	RES-CHIP	100 5% 1/10W
	R9021	1-216-103-00	RES-CHIP	180K 5% 1/10W
	R9022	1-216-073-91	RES-CHIP	10K 5% 1/10W
	R9023	1-216-103-00	RES-CHIP	180K 5% 1/10W
	R9025	1-216-025-11	RES-CHIP	100 5% 1/10W
	R9026	1-208-783-11	METAL CHIP	1.1K 0.50% 1/10W
	R9027	1-216-103-00	RES-CHIP	180K 5% 1/10W
	R9028	1-216-103-00	RES-CHIP	180K 5% 1/10W
	R9029	1-216-073-91	RES-CHIP	10K 5% 1/10W
	R9030	1-216-073-91	RES-CHIP	10K 5% 1/10W
	R9031	1-208-783-11	METAL CHIP	1.1K 0.50% 1/10W
	R9032	1-216-103-00	RES-CHIP	180K 5% 1/10W
	R9033	1-215-435-00	METAL	3.9K 1% 1/4W
	R9034	1-215-428-00	METAL	2K 1% 1/4W
	R9035	1-216-103-00	RES-CHIP	180K 5% 1/10W
	R9036	1-216-083-00	RES-CHIP	27K 5% 1/10W
	R9037	1-215-926-00	METAL OXIDE	33K 5% 3W
	R9039	1-216-025-11	RES-CHIP	100 5% 1/10W
	R9041	1-216-083-00	RES-CHIP	27K 5% 1/10W
	R9042	1-216-083-00	RES-CHIP	27K 5% 1/10W
	R9043	1-215-926-00	METAL OXIDE	33K 5% 3W
	R9044	1-215-926-00	METAL OXIDE	33K 5% 3W
	R9047	1-219-744-11	METAL	220 5% 1/2W
	R9048	1-216-049-11	RES-CHIP	1K 5% 1/10W
	R9049	1-216-049-11	RES-CHIP	1K 5% 1/10W

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CX HC HB

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9051	1-219-744-11	METAL	220	5%	1/2W
R9052	1-219-744-11	METAL	220	5%	1/2W
R9056	1-219-743-11	METAL	100	5%	1/2W
R9057	1-219-510-11	METAL	470K	5%	1/2W
R9059	1-219-746-11	METAL	1K	5%	1/2W
R9061	1-219-743-11	METAL	100	5%	1/2W
R9062	1-260-123-11	CARBON	100K	5%	1/2W
R9063	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9070	1-249-403-11	CARBON	68	5%	1/4W
R9071	1-247-807-31	CARBON	100	5%	1/4W
R9072	1-216-025-11	RES-CHIP	100	5%	1/10W
R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9074	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R9077	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9089	1-208-803-11	METAL CHIP	7.5K	0.50%	1/10W
R9091	1-215-429-00	METAL	2.2K	1%	1/4W
R9092	1-216-295-91	SHORT CHIP			
R9094	1-216-295-91	SHORT CHIP			
R9095	1-216-295-91	SHORT CHIP			

VARIABLE RESISTOR

⚠ RV9001	1-241-714-11	RES, ADJ, METAL FILM	110M		

HC

*	**A-1400-709-A**	**HC BOARD, MOUNTED**	

CAPACITOR

C1002	1-126-964-11	ELECT	10µF	20%	50V

CONNECTOR

* CN1000	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)	10P		

DIODE

D1004	8-719-070-80	DIODE	LNK0120022G
D1005	8-719-070-80	DIODE	LNK0120022G

IC

IC1000	8-742-212-20	HYB IC	SBX3081-71

REF. NO.	PART NO.	DESCRIPTION	VALUES		

RESISTOR

R1000	1-249-385-11	CARBON	2.2	5%	1/4W
R1002	1-249-413-11	CARBON	470	5%	1/4W
R1003	1-249-415-11	CARBON	680	5%	1/4W
R1005	1-249-417-11	CARBON	1K	5%	1/4W
R1006	1-249-421-11	CARBON	2.2K	5%	1/4W
R1015	1-249-433-11	CARBON	22K	5%	1/4W
R1016	1-249-409-11	CARBON	220	5%	1/4W
R1017	1-249-409-11	CARBON	220	5%	1/4W
R1019	1-247-807-31	CARBON	100	5%	1/4W

SWITCH

S1000	1-692-431-21	SWITCH, TACTILE
S1001	1-692-431-21	SWITCH, TACTILE
S1003	1-571-032-41	SWITCH, PUSH (1 KEY)
S1004	1-692-431-21	SWITCH, TACTILE
S1005	1-692-431-21	SWITCH, TACTILE
S1006	1-692-431-21	SWITCH, TACTILE

HB

*	**A-1405-868-A**	**HB(VAR) BOARD, MOUNTED**	

CAPACITOR

C1100	1-126-960-11	ELECT	1µF	20%	50V
C1101	1-126-960-11	ELECT	1µF	20%	50V

CONNECTOR

* CN1100	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P		

DIODE

D1100	8-719-977-28	DIODE	DTZ10B
D1101	8-719-977-28	DIODE	DTZ10B
D1103	8-719-977-28	DIODE	DTZ10B

FILTER

FL1103	1-409-755-11	FERRITE	0µH
FL1104	1-409-755-11	FERRITE	0µH

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HB WX

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	JACK				
J1100	1-770-053-12	TERMINAL BLOCK, S(LIGHT ANGLE)			
	CHIP CONDUCTOR				
JR1100	1-216-864-11	SHORT CHIP			
JR1101	1-216-864-11	SHORT CHIP			
JR1102	1-216-864-11	SHORT CHIP			
JR1103	1-216-864-11	SHORT CHIP			
JR1104	1-216-864-11	SHORT CHIP			
JR1105	1-216-864-11	SHORT CHIP			
JR1106	1-216-864-11	SHORT CHIP			
JR1107	1-216-864-11	SHORT CHIP			
	RESISTOR				
R1100	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1101	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1102	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1103	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1104	1-216-864-11	SHORT CHIP			
R1105	1-216-864-11	SHORT CHIP			
R1106	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1107	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1108	1-216-864-11	SHORT CHIP			
	VARISTOR				
VD1102	1-803-974-21	VARISTOR, CHIP	(1608)		

WX

*	**A-1405-827-A**	**WX(VAR) BOARD, MOUNTED**	
	4-382-854-01	SCREW (M3X8), P, SW (+)	
	CAPACITOR		
C9101	1-104-999-11	MYLAR	0.1µF 5% 200V
C9102	1-130-495-00	MYLAR	0.1µF 5% 50V
C9104	1-126-933-11	ELECT	100µF 20% 16V
C9105	1-162-964-11	CERAMIC CHIP	0.001µF 10% 50V
C9106	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C9108	1-107-662-11	ELECT	22µF 20% 350V
C9109	1-161-830-00	CERAMIC	0.0047µF 500V
C9110	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C9111	1-126-964-11	ELECT	10µF 20% 50V
C9112	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V
C9113	1-137-528-11	MYLAR	0.1µF 10% 250V
C9114	1-107-636-11	ELECT	10µF 20% 160V
C9115	1-137-528-11	MYLAR	0.1µF 10% 250V
C9116	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C9117	1-117-450-11	MYLAR	0.47µF 10% 250V
C9118	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C9120	1-130-495-00	MYLAR	0.1µF 5% 50V
C9121	1-126-947-11	ELECT	47µF 20% 35V
C9125	1-130-495-00	MYLAR	0.1µF 5% 50V
C9126	1-126-947-11	ELECT	47µF 20% 35V
C9127	1-130-495-00	MYLAR	0.1µF 5% 50V
C9128	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V
C9144	1-162-927-11	CERAMIC CHIP	100pF 5% 50V
	CONNECTOR		
* CN9100	1-564-515-11	PLUG, CONNECTOR	12P
* CN9101	1-564-506-11	PLUG, CONNECTOR	3P
* CN9102	1-564-508-11	PLUG, CONNECTOR	5P
* CN9103	1-770-747-11	CONNECTOR, BOARD TO BOARD	12P
* CN9104	1-564-506-11	PLUG, CONNECTOR	3P
* CN9105	1-564-506-11	PLUG, CONNECTOR	3P
	FERRITE BEAD		
FB9100	1-410-397-21	FERRITE	1.1µH
FB9101	1-410-397-21	FERRITE	1.1µH
	IC		
IC9100	8-759-822-38	IC	LA6510
	COIL		
L9100	1-412-525-31	INDUCTOR	10µH
L9104	1-406-979-11	INDUCTOR	220µH
L9105	1-412-536-31	INDUCTOR	82µH
	TRANSISTOR		
Q9100	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9101	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9102	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q9103	8-729-422-27	TRANSISTOR	2SD601A-Q

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REF. NO.	PART NO.	DESCRIPTION	VALUES
Q9104	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q9105	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9106	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q9107	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9108	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q9109	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9110	8-729-045-04	TRANSISTOR	2SC5511
Q9111	8-729-045-05	TRANSISTOR	2SA2005
Q9121	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9122	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9123	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q9124	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX

RESISTOR

R9101	1-216-805-11	METAL CHIP	47	5%	1/10W
R9102	1-260-322-11	CARBON	330	5%	1/2W
R9103	1-216-819-11	METAL CHIP	680	5%	1/10W
R9104	1-216-820-11	METAL CHIP	820	5%	1/10W
R9105	1-216-837-11	METAL CHIP	22K	5%	1/10W
R9106	1-218-715-11	METAL CHIP	9.1K	0.50%	1/10W
R9107	1-216-809-11	METAL CHIP	100	5%	1/10W
R9108	1-216-817-11	METAL CHIP	470	5%	1/10W
R9109	1-216-817-11	METAL CHIP	470	5%	1/10W
R9110	1-216-805-11	METAL CHIP	47	5%	1/10W
R9111	1-216-805-11	METAL CHIP	47	5%	1/10W
R9112	1-249-389-11	CARBON	4.7	5%	1/4W
R9113	1-249-389-11	CARBON	4.7	5%	1/4W
R9114	1-249-389-11	CARBON	4.7	5%	1/4W
R9115	1-249-389-11	CARBON	4.7	5%	1/4W
R9116	1-249-389-11	CARBON	4.7	5%	1/4W
R9117	1-249-389-11	CARBON	4.7	5%	1/4W
R9118	1-249-389-11	CARBON	4.7	5%	1/4W
R9119	1-249-389-11	CARBON	4.7	5%	1/4W
R9120	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9121	1-216-848-11	METAL CHIP	180K	5%	1/10W
R9122	1-216-847-11	METAL CHIP	150K	5%	1/10W
R9123	1-216-848-11	METAL CHIP	180K	5%	1/10W
R9124	1-216-847-11	METAL CHIP	150K	5%	1/10W
R9125	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9126	1-216-805-11	METAL CHIP	47	5%	1/10W
R9127	1-216-805-11	METAL CHIP	47	5%	1/10W
R9128	1-215-888-00	METAL OXIDE	220	5%	2W
R9129	1-216-864-11	SHORT CHIP			
R9130	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R9131	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
R9132	1-218-713-11	METAL CHIP	7.5K	0.50%	1/10W
R9133	1-249-391-11	CARBON	6.8	5%	1/4W
R9134	1-249-383-11	CARBON	1.5	5%	1/4W
R9135	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R9138	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R9139	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R9141	1-214-657-11	METAL	1	1%	1/4W
R9142	1-214-657-11	METAL	1	1%	1/4W
R9143	1-216-429-00	METAL OXIDE	270	5%	1W
R9144	1-215-867-00	METAL OXIDE	470	5%	1W
R9187	1-249-389-11	CARBON	4.7	5%	1/4W
R9188	1-249-389-11	CARBON	4.7	5%	1/4W
R9189	1-249-389-11	CARBON	4.7	5%	1/4W
R9190	1-249-389-11	CARBON	4.7	5%	1/4W

ACCESSORIES AND PACKING

*	4-066-845-11	BAG, PROTECTION
	4-094-066-21	MANUAL, INSTRUCTION
	4-094-066-31	MANUAL, INSTRUCTION
	4-095-895-01	CARTON, INDIVIDUAL
*	4-095-897-01	CUSHION, LOWER
*	4-095-898-01	CUSHION, UPPER

REMOTE COMMANDER

1-477-936-11	REMOTE COMMANDER RM-Y191
4-081-888-01	BATTERY COVER for RM-Y191

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

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SERVICE MANUAL

DA-4 CHASSIS

In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to Nita Wardlaw at nita.wardlaw@am.sony.com.

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SONY

4-094-066-**21**

FD Trinitron

WEGA®

Operating Instructions

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MEMORY STICK™

Sony Corporation

Printed in U.S.A.

KV-30HS510
KV-34HS510

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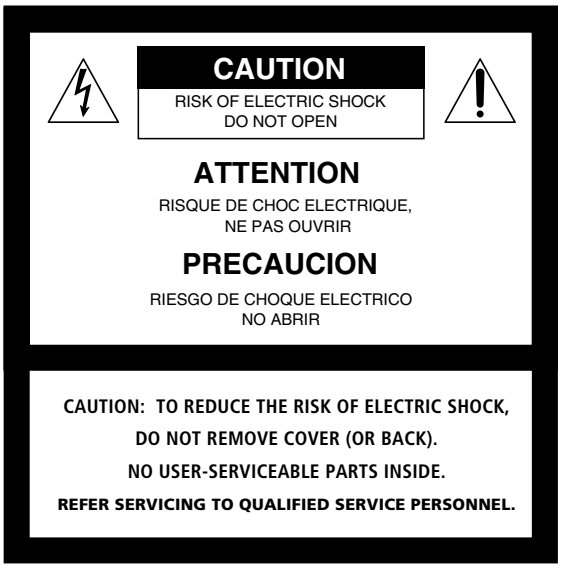
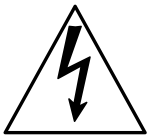
WARNING

To reduce the risk of fire or shock hazard, do not expose the TV to rain or moisture.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CAUTION

When using TV games, computers, and similar products with your TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. Continuously watching the same program can cause the imprint of station logos onto the TV screen. These types of imprints are not covered by your warranty because they are the result of misuse.

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Note on Cleaning the TV

Clean the TV with a soft, dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.

Note to CATV System Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ❑ Reorient or relocate the receiving antennas.
- ❑ Increase the separation between the equipment and receiver.
- ❑ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ❑ Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Installing

- ❑ To prevent internal heat buildup, do not block the ventilation openings.
- ❑ Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- ❑ The AC power cord is attached to the rear of the TV with hooks. Do not attempt to remove the cord from these hooks. Doing so could cause damage to the TV.

As an ENERGY STAR® Partner, Sony has determined that this product or product models meets the ENERGY STAR® guidelines for energy efficiency.

ENERGY STAR® is a U.S. registered mark.

Owner's Record

The model and serial numbers are provided on the front of this instruction manual and at the rear of the TV. Refer to them whenever you call upon your Sony dealer regarding this product.

Trademark Information

TruSurround and the (●)® symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

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IMPORTANT SAFEGUARDS

For your protection, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set, or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use, and servicing of the set.

Use

Power Sources

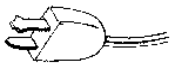
This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.

Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

For the set with a polarized AC power cord plug

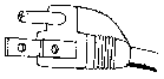
This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.



Alternate Warning

For the set with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Always turn the set off when it is not to be used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.

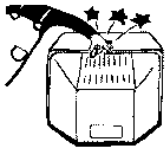
Do not disconnect the antenna or the power cord during a heavy storm. Lightning may strike while you are holding the cable or cord, causing serious injury. Turn off your TV and wait for the weather to improve.

Memory Stick

To protect small children from injury from Memory Stick Media, remove all Memory Stick media from the TV's Memory Stick slot and store it in a safe location when it is not in use.

Object and Liquid Entry

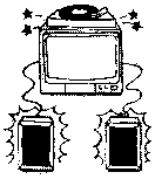
Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.

Do not place any objects, especially heavy objects, on top of the set. The object may fall from the set, causing injury.



Cleaning

Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the set.

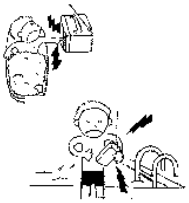
If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.

Installation

Always use two or more people to lift or move the set. The set is heavy and the bottom surface is flat. Serious injury can result from trying to move the set by yourself alone, or from unsteady handling. Install the set on a stable, level surface.

Water and Moisture

Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



Accessories

Do not place the set on an unstable cart, stand, tripod, bracket, table or shelf. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of TV. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Disconnect all cables and cords from the set before attempting to move the set.

Do not allow children or pets to climb up onto, or push against, the set. The set may fall, causing serious injury.

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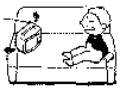
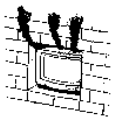
Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

- ❑ Never cover the slots and openings with a cloth or other materials.



- ❑ Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.



- ❑ Never place the set in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.

- ❑ Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.

Power Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.

Antennas

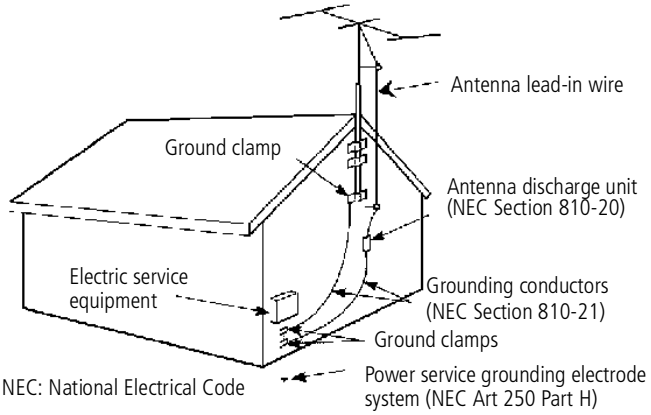
Outdoor Antenna Grounding

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provide information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the National Electrical Code, ANSI/NFPA 70



Lightning

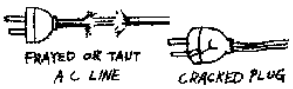
For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power line surges.

Service

Damage Requiring Service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- ❑ When the power cord or plug is damaged or frayed.



- ❑ If liquid has been spilled into the set or objects have fallen into the product.

- ❑ If the set has been exposed to rain or water.
- ❑ If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.

- ❑ If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.

- ❑ When the set exhibits a distinct change in performance, it indicates a need for service.

Servicing

Do not attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.

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Setting Up the TV

Overview

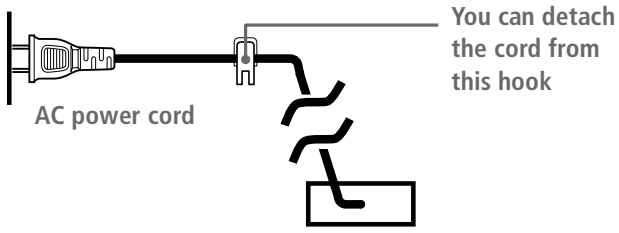
This chapter includes illustrated instructions for setting up your TV.

Topic	Page(s)
TV Controls and Connectors	10-13
Basic Connections: Connecting a Cable or Antenna	14-20
Connecting Optional Equipment	
VCR and Cable	22
VCR and Cable Box	24
Two VCRs for Tape Editing	26
Satellite Receiver	28
Satellite Receiver and VCR	30
DVD Player with Component Video Connectors	32
DVD Player with S VIDEO and Audio Connectors	34
Camcorder	35
Audio Receiver	36
Using the CONTROL S Feature	37
Setting Up the Channel List	38

About the AC Power Cord

The AC power cord is attached to the rear of the TV with a hook. Use caution when removing the AC plug from its holder. Gently slide the plug upward to remove it from the hook. Once removed, the AC power plug should automatically disengage from its stored location.

Do not plug in the AC power cord until you have made all other connections.



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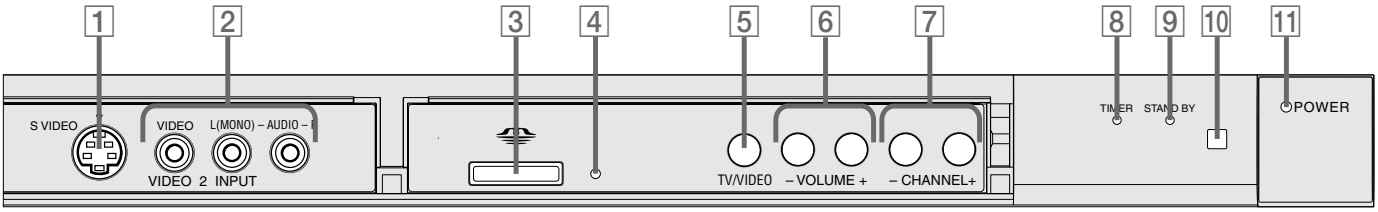
TV Controls and Connectors

Front Panel



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Item		Description
1	S VIDEO VIDEO 2 INPUT	Connects to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (2).
2	VIDEO/L(MONO)-AUDIO-R VIDEO 2 INPUT	Connects to the composite A/V output jacks on your camcorder or other video equipment.
3	MEMORY STICK	Memory Stick insertion slot. For details, see "Using the Memory Stick Picture Viewer" on page 54.
4	MEMORY STICK LED	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
5	TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
6	-VOLUME +	Press to adjust the volume.
7	-CHANNEL+	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL button.
8	TIMER LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 79.
9	STAND BY LED	Blinks when the TV is turned on, then shuts off when the picture is displayed. If the LED blinks continuously, this may indicate the TV needs service (see "Contacting Sony" on page 84).
10	Infrared Receiver (IR)	Receives IR signals from the TV's remote control.
11	POWER	Press to turn on and off the TV.

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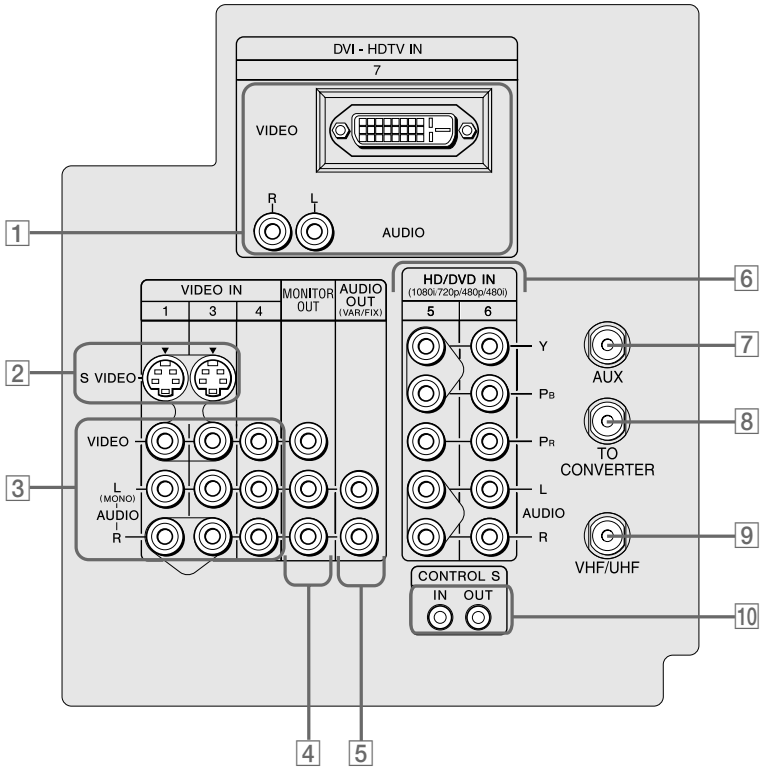
Rear Panel



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Jack	Description
1 DVI-HDTV VIDEO AUDIO R/L (VIDEO 7 IN)	Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. See the instruction manual that came with your equipment for details about connecting and using it with the TV.
2 S VIDEO IN 1/3	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than either composite video (3) or VHF/UHF (9) connections.
3 VIDEO IN 1/3/4 VIDEO/L(MONO) -AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A fourth component A/V input jack (VIDEO 2) is located on the front panel of the TV. This video connection provides better picture quality than the VHF/UHF (9) connection.
4 MONITOR OUT	Lets you record the program you are watching to a VCR. When two VCRs are connected, you can use the TV as a monitor for tape-to-tape editing (not available with 480p, 720p, or 1080i when the input is set to VIDEO 5 or 6).
5 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
6 HD/DVD IN 5/6 (1080i/720p/480p/480i)	Connect to your DVD player's or digital set-top box's component video (Y, PB, PR) and audio (L/R) jacks. Component video provides better picture quality than 2, 3, or 9).
7 AUX	Auxiliary RF input that connects to your antenna, CATV cable, or cable box output jack. This is convenient if you are using two VHF/UHF sources (antenna, CATV cable, or cable box). For details, see pages 16 to 19.
8 TO CONVERTER	Connects to your cable box input jack. This VHF/UHF output jack lets you set up your TV to switch between scrambled channels (coming through a cable box) and unscrambled cable channels. Use this jack instead of a splitter to get better picture quality when you need to switch between scrambled and unscrambled cable channels. For details, see pages 18 to 19.
9 VHF/UHF	Primary RF input that connects to your VHF/UHF antenna or cable.
10 CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.

* High-bandwidth Digital Content Protection

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Basic Connections: Connecting a Cable or Antenna

The way in which you will connect your TV varies, depending on how your home receives a signal (cable, cable box, antenna) and whether or not you plan to connect a VCR.

If You Are Connecting	See Page
Cable or Antenna Only ❏ No cable box or VCR	15
Cable and Antenna Only ❏ No cable box or VCR	16
Cable Box and Cable Only ❏ Cable box unscrambles only some channels (usually premium channels) ❏ No VCR	18
Cable Box Only ❏ Cable box unscrambles all channels ❏ No VCR	20

If you are connecting a VCR

❏ See the connections described on pages 22 and 24.

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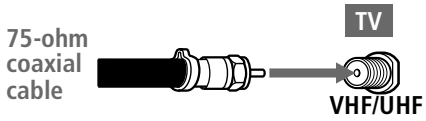
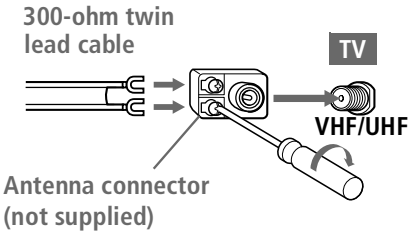
Cable or Antenna Only

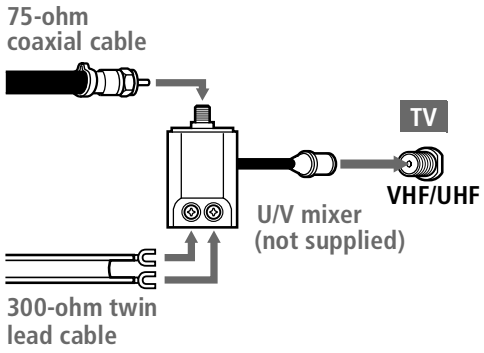
For best results, use one of the following connections if you are connecting a cable or an antenna and you:

- ❑ Do not need a cable box to unscramble channels. (If you have a cable box, see pages 18-20.)
- ❑ Do not intend to connect a VCR. (If you have a VCR, see pages 22 and 24.)

The connection you choose depends on the cable type you have in your home, as described below.

75-ohm coaxial cable (usually found in newer homes)	
Cable Type	***Connect As Shown***
VHF Only or combined VHF/UHF or Cable	

300-ohm twin lead cable (usually found in older homes)	
Cable Type	***Connect As Shown***
VHF Only or UHF Only or combined VHF/UHF	

75-ohm coaxial and 300-ohm twin lead cable (found in some homes)	
Cable Type	***Connect As Shown***
VHF and UHF	

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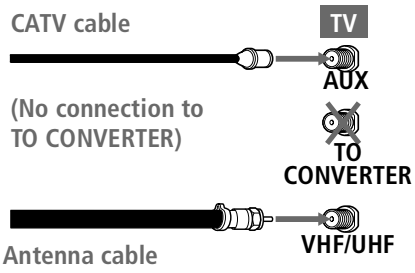
Cable and Antenna Only

For best results, use this connection if you:

- ❑ Have a cable and an antenna.

  (This is convenient if you are using a separate rooftop antenna to receive additional channels that are not provided by your cable company.)

- ❑ Do not have a cable box or VCR. (If you have a cable box, see pages 18 to 20. If you have a VCR, see pages 22 and 24.)

Cable Type	*Connect As Shown*
Cable TV (CATV) and Antenna	

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you cannot view CATV channels in the right dual picture window.

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To Do This ...	Do This ...
Switch the TV's input between the cable and antenna	Press ANT to switch back and forth between the TV's VHF/UHF and AUX inputs.
Receive channels using an antenna, instead of the cable	1 Press ANT to switch to the AUX input. 2 Set the Cable option to Off. For details, see "Selecting Channel Options" on page 72. 3 Run the Auto Setup program, as described in "Using Auto Setup" on page 38.

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Cable Box and Cable Only

✍ **DIGITAL CABLE BOX USERS: Do not use this connection. The TO CONVERTER jack is not compatible with digital cable boxes.**

For best results, use this connection if:

- ❑ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- ❑ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

With this connection you can:

- ❑ Use the TV remote control to change channels coming through the cable box to the TV's AUX input jack. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 43.)
- ❑ Use the TV remote control to change channels coming directly into the TV's VHF/UHF input. (The TV's tuner provides a better signal than the cable box.)

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features for unscrambled channels coming directly into the TV's VHF/UHF input jack.

However, you can use only some of the dual picture features for channels coming through the cable box to the TV's AUX input jack. For example, when you switch the TV's input to AUX — to select the cable box input — the picture displays only in the left window. For example, if you turn on Twin View, you can watch cable channels coming into the VHF/UHF jack in the right window, but you cannot swap the pictures between the left and right windows.

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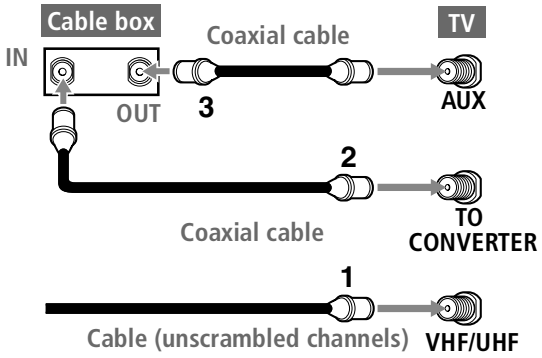
To connect the cable box and cable

1. Connect the cable from your cable company to the TV's VHF/UHF jack.
2. Use a coaxial cable to connect the TV's TO CONVERTER jack to the cable box's input jack. (The TV's internal converter lets you switch between unscrambled signals coming straight into the TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.)
3. Use a coaxial cable to connect the cable box's output jack to the TV's AUX jack.
4. Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

If you have a digital cable box, you cannot use this connection because the TO CONVERTER jack is not compatible with digital cable boxes.



Notes on Using This Connection

To Do This ...	*Do This ...*
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 72.
Switch the TV's input between the cable box and cable	Press ANT to switch back and forth between the TV's VHF/UHF (unscrambled channels) and AUX (scrambled) inputs.

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Cable Box Only

For best results, use this connection if:

- ❑ Your cable company scrambles all channels, which requires you to use a cable box.
- ❑ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

With this connection you can:

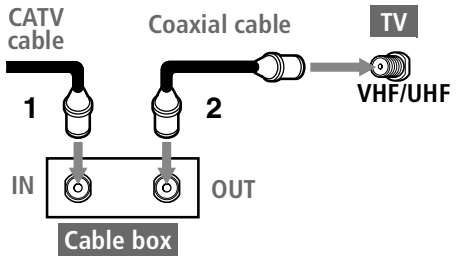
- ❑ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, all channels come into the TV through your cable box and only one unscrambled signal is sent to the TV, so you cannot use the dual picture features.. If some of your channels are scrambled, but others are not, consider using the "Cable Box and Cable" connection on page 18 instead.

To connect the cable box

1. Connect the CATV cable to the cable box's input jack.
2. Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF jack.



Notes on Using This Connection

To Do This ...	*Do This ...*
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 72.

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Connecting Optional Equipment

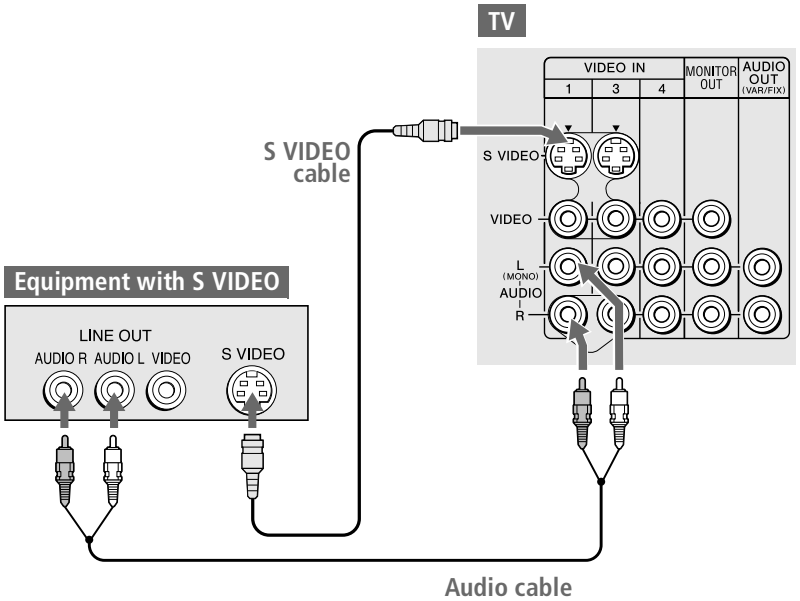
Use the directions in this section to connect the following optional equipment:

If You Are Connecting	See Page
VCR and Cable	22
VCR and Cable Box	24
Two VCRs for Tape Editing	26
Satellite Receiver	28
Satellite Receiver and VCR	30
DVD Player with Component Video Connectors	32
DVD Player with S VIDEO and Audio Connectors	34
Camcorder	35
Audio Receiver	36

About Using S VIDEO

If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

Example of an S VIDEO Connection



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

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VCR and Cable

For best results, use this connection if:

- ❑ Your cable company does not require you to use a cable box.

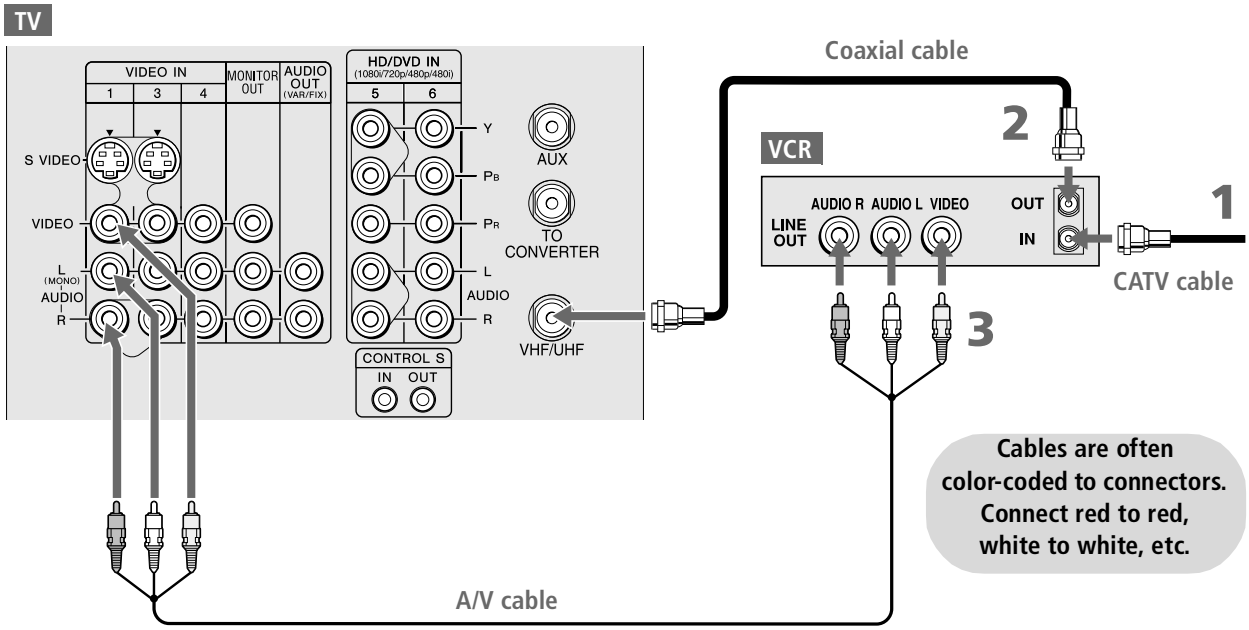
About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

Using S VIDEO jacks? See page 21.

To connect the VCR and cable

1. Connect the CATV cable to the VCR's VHF/UHF input jack.
2. Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.
3. Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
4. Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.



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To Do This ...	Do This ...
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Watch cable channels	Press TV/VIDEO repeatedly to select the cable input (VHF/UHF in the illustration).
Set up the TV remote control to operate the VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the VCR	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

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VCR and Cable Box

For best results, use this connection if:

- ❑ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

With this connection you can:

- ❑ Use the TV remote control to change channels coming through the cable box. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 43.)
- ❑ Use the TV remote control to change channels coming directly into the TV's VHF/UHF jack. (The TV's tuner provides a better signal than the cable box.)
- ❑ Record channels coming through the cable box and channels coming directly into the TV.

To connect a VCR and cable box, you need:

- ❑ A splitter, which is a small, inexpensive device that you can purchase at your local electronics store.

  ✍ **DIGITAL CABLE BOX USERS: If you are connecting a digital cable box, you will need a special bi-directional splitter that is designed to work with your digital cable box. Contact your cable provider for details.**

- ❑ Three coaxial cables.
- ❑ One A/V cable or one S VIDEO cable with audio cables.

To connect the VCR and cable box

1. Connect the CATV cable to the single (input) jack of the splitter.
2. Use a coaxial cable to connect one of the splitter's two output jacks to the TV's VHF/UHF jack.
3. Use a coaxial cable to connect the splitter's other output jack to the cable box's input jack.
4. Use a coaxial cable to connect the cable box's output jack to the VCR's RF input jack.
5. Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
6. Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

Using S VIDEO jacks? See page 21.

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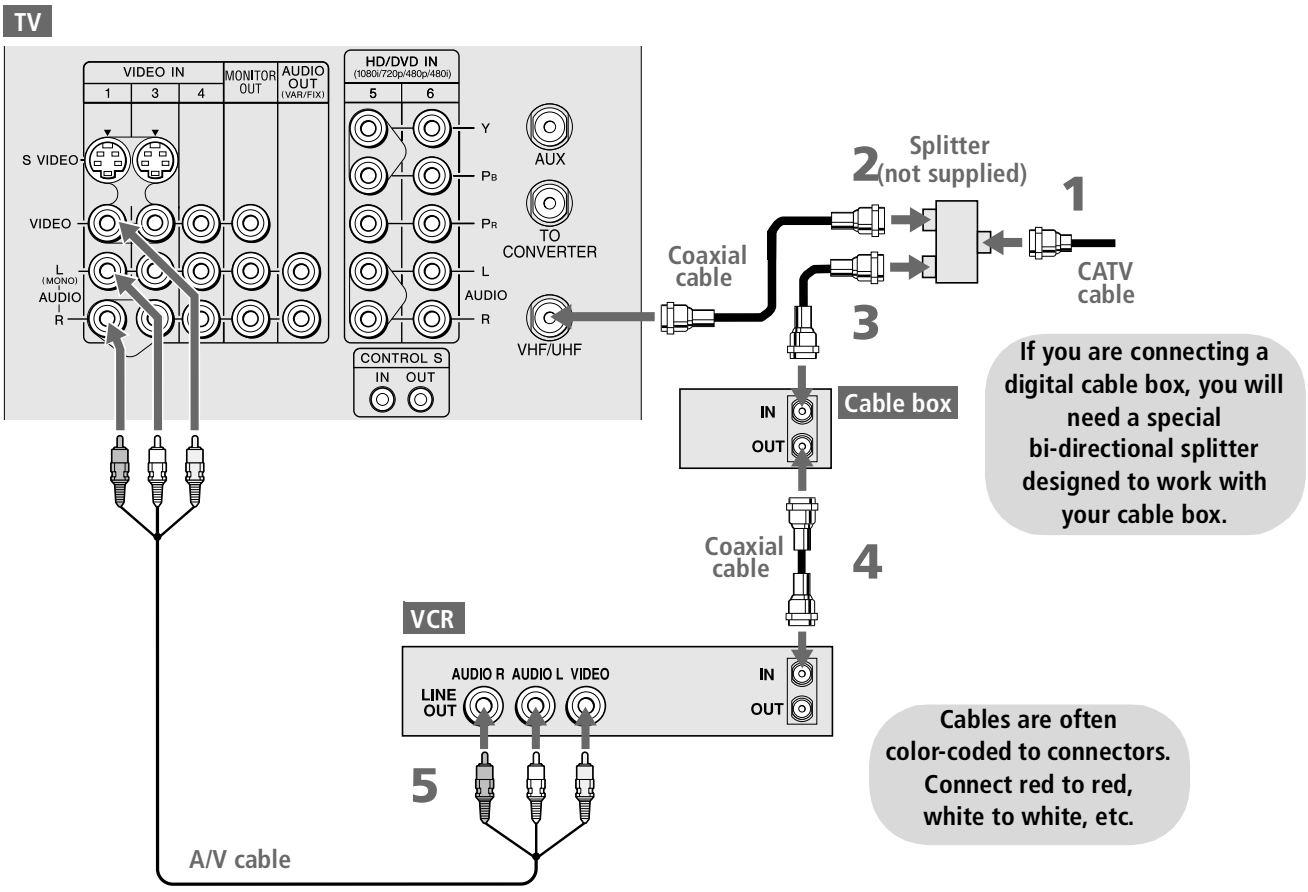

Notes on Using This Connection

To Do This ...	*Do This ...*
Watch cable (unscrambled) channels	Press TV/VIDEO repeatedly to select the cable input (UHF/VHF in the illustration).
Watch cable box (scrambled) channels	Turn on the VCR and tune it to the channel the cable box is set to (usually channel 3 or 4). Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). Use the cable box to change channels.
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the cable box or VCR	If you have a non-Sony VCR, you must program the remote control. See “Programming the Remote Control” on pages 43-44.
Activate the remote control to operate the cable box or VCR	For the cable box, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control specific cable box and VCR functions with the TV remote control	See “Operating a Cable Box” on page 63 and “Operating a VCR” on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

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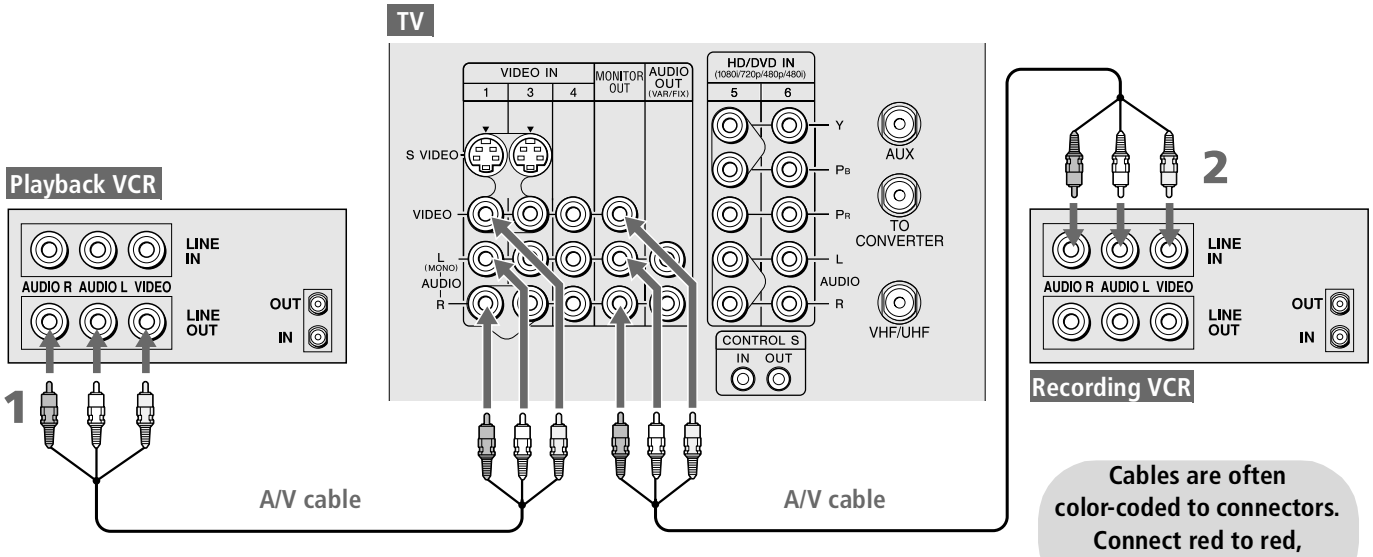
Two VCRs for Tape Editing

Connecting two VCRs lets you record from one VCR to the other. By connecting them as shown below, you can view (monitor) what is being recorded.

Using S VIDEO jacks? See page 21.

To connect two VCRs for tape editing

1. Use an A/V cable to connect the playback VCR's A/V output jacks to the TV's A/V input jacks.
2. Use an A/V cable to connect the recording VCR's A/V input jacks to the TV's MONITOR OUT jacks.



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

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To Do This ...	Do This ...
View (monitor) what is being recorded	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration above).
Set up the TV remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the VCR(s)	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

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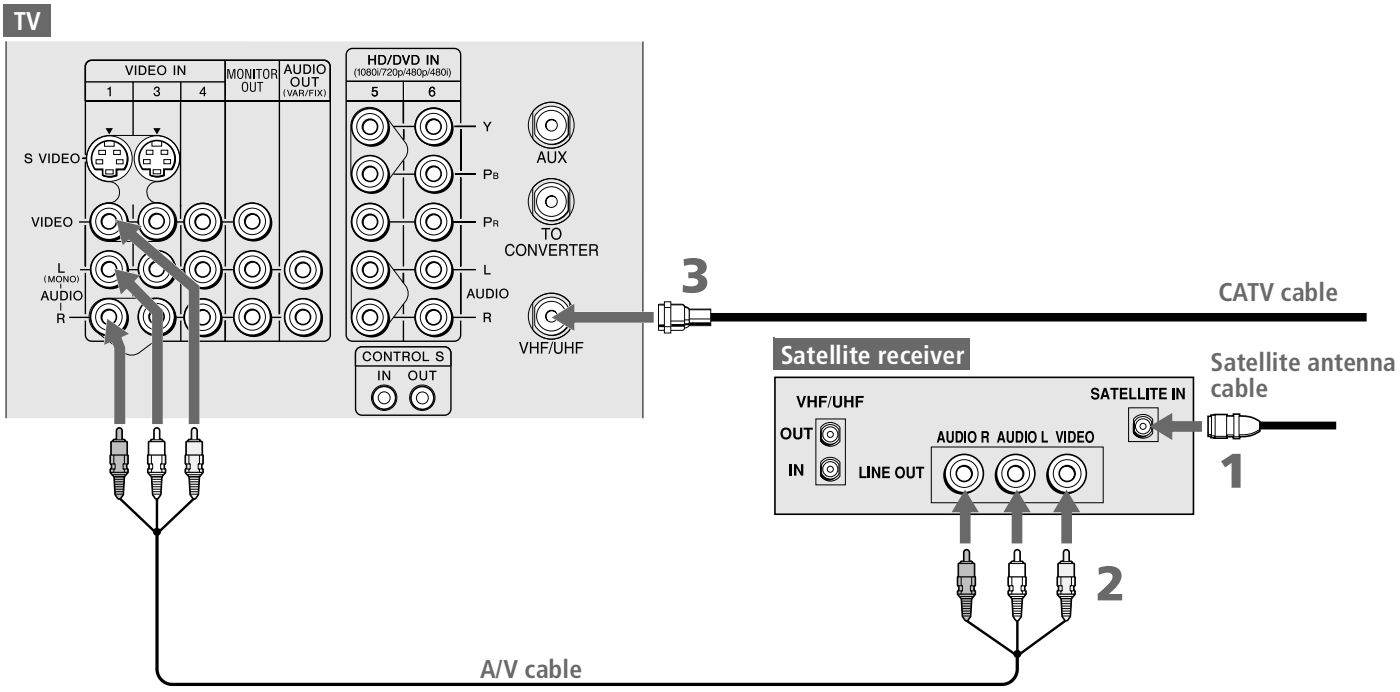
Satellite Receiver

Using S VIDEO jacks? See page 21.

To connect a satellite receiver

1. Connect the satellite antenna cable to the satellite receiver's satellite input jack.
2. Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks.
3. Connect a CATV cable from your cable or antenna to the TV's VHF/UHF jack.
4. Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

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To Do This ...	Do This ...
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver	If you have a non-Sony satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the satellite receiver	Press SAT/CABLE FUNCTION.
Control satellite receiver functions with the TV remote control	See "Operating a Satellite Receiver" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

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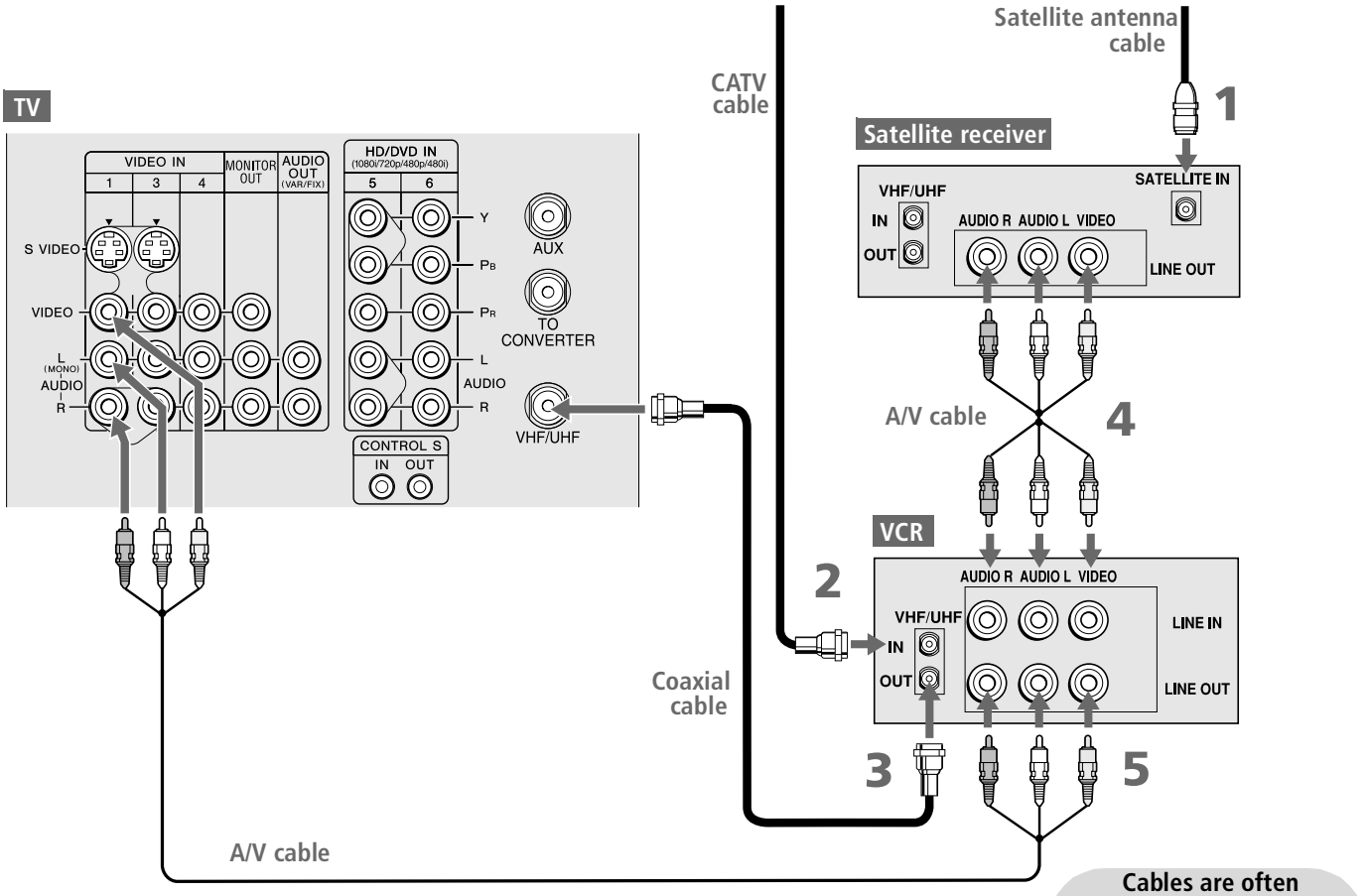
Satellite Receiver and VCR

Using S VIDEO jacks? See page 21.

To connect a satellite receiver and VCR

1. Connect the satellite antenna cable to the satellite receiver's satellite input jack.
2. Connect the CATV cable to the VCR's VHF/UHF input jack.
3. Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.
4. Use an A/V cable to connect the satellite receiver's A/V output jacks to the VCR's A/V input jacks.
5. Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
6. Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

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To Do This ...	Do This ...
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). The VCR must be turned on and set to the satellite receiver's line input.
Watch the VCR	Press TV/VIDEO repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver or VCR	If you have a non-Sony VCR or satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the satellite receiver or VCR	For the satellite receiver, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control satellite receiver and VCR functions with the TV remote control	See "Operating a Satellite Receiver" on page 62 and "Operating a VCR" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

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DVD Player with Component Video Connectors

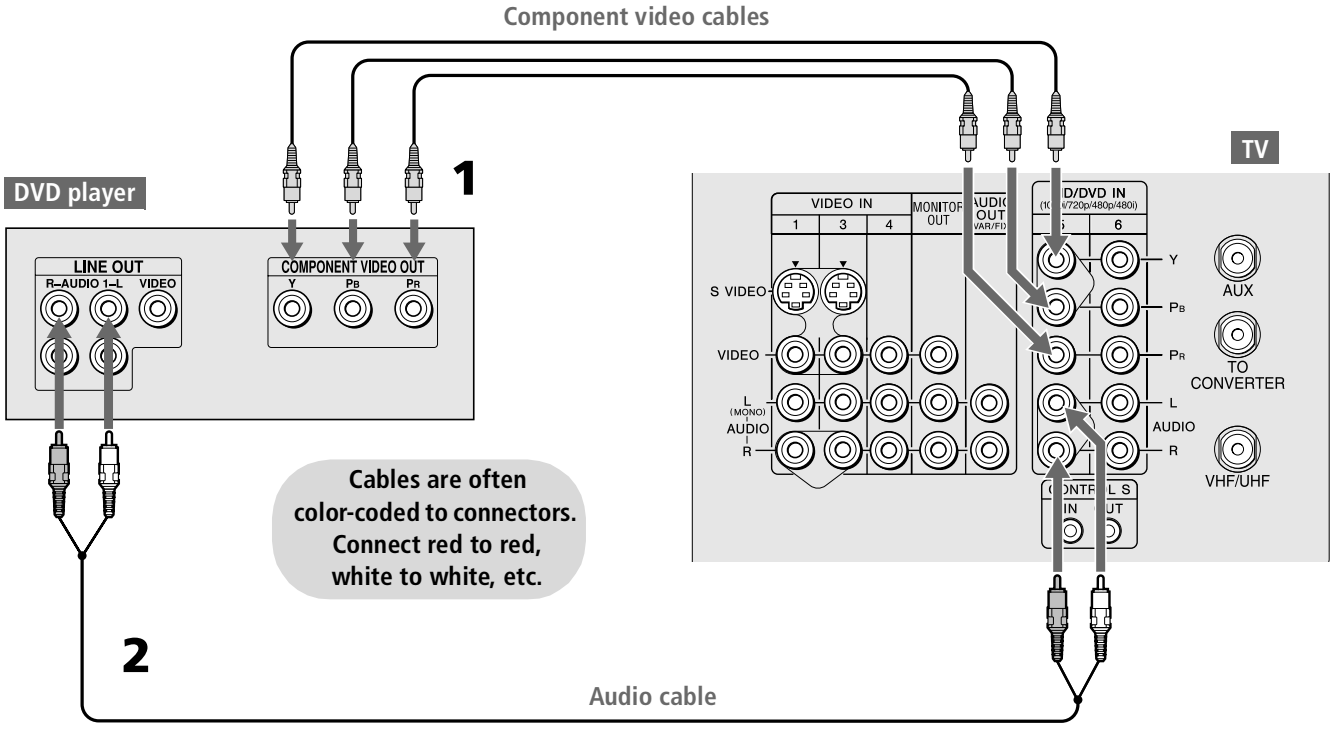
For best results, use this connection if your DVD player has component video (Y, P_B, P_R) jacks.

To connect a DVD player with component video connectors

1 Use three separate component video cables to connect the DVD player's Y, P_B and P_R jacks to the Y, P_B and P_R jacks (VIDEO 5) on the TV.

> ✍ **The Y, P_B and P_R jacks on your DVD player are sometimes labeled Y, C_B and C_R, or Y, B-Y and R-Y. If so, connect the cables to like colors.**

2 Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 5 audio input jacks.



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To Do This ...	Do This ...
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 5 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 63.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

✍ **You cannot record the signal from any equipment connected into the Y, PB, PR jacks.**

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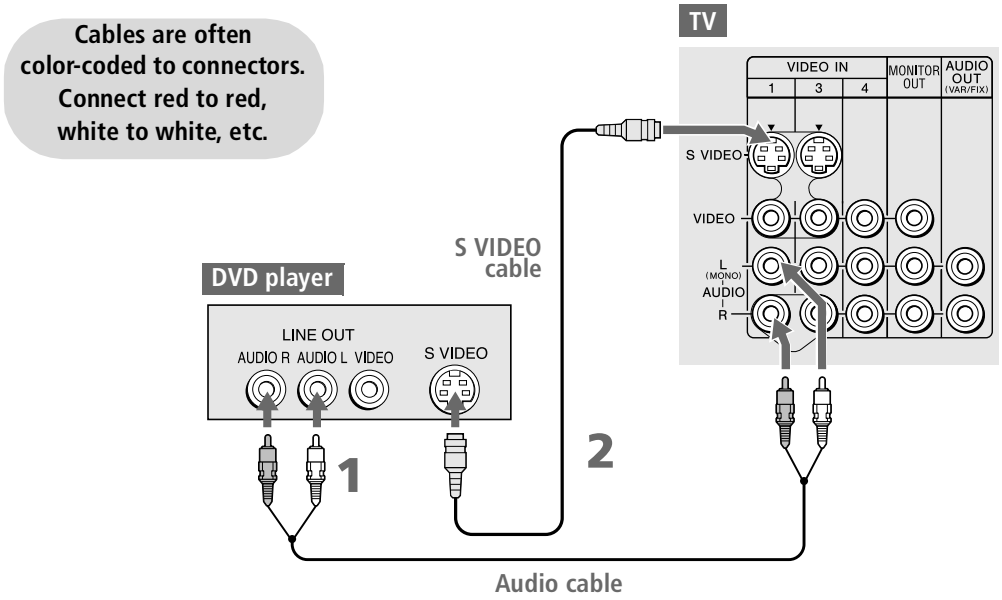
DVD Player with S VIDEO and Audio Connectors

Use this connection if your DVD player does not have component video (Y, P_B, P_R) jacks.

To connect a DVD player with A/V connectors

1. Use an audio cable to connect the DVD player's audio output jacks to the TV's audio input jacks.
2. Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



Notes on Using This Connection

To Do This ...	Do This ...
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 63.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

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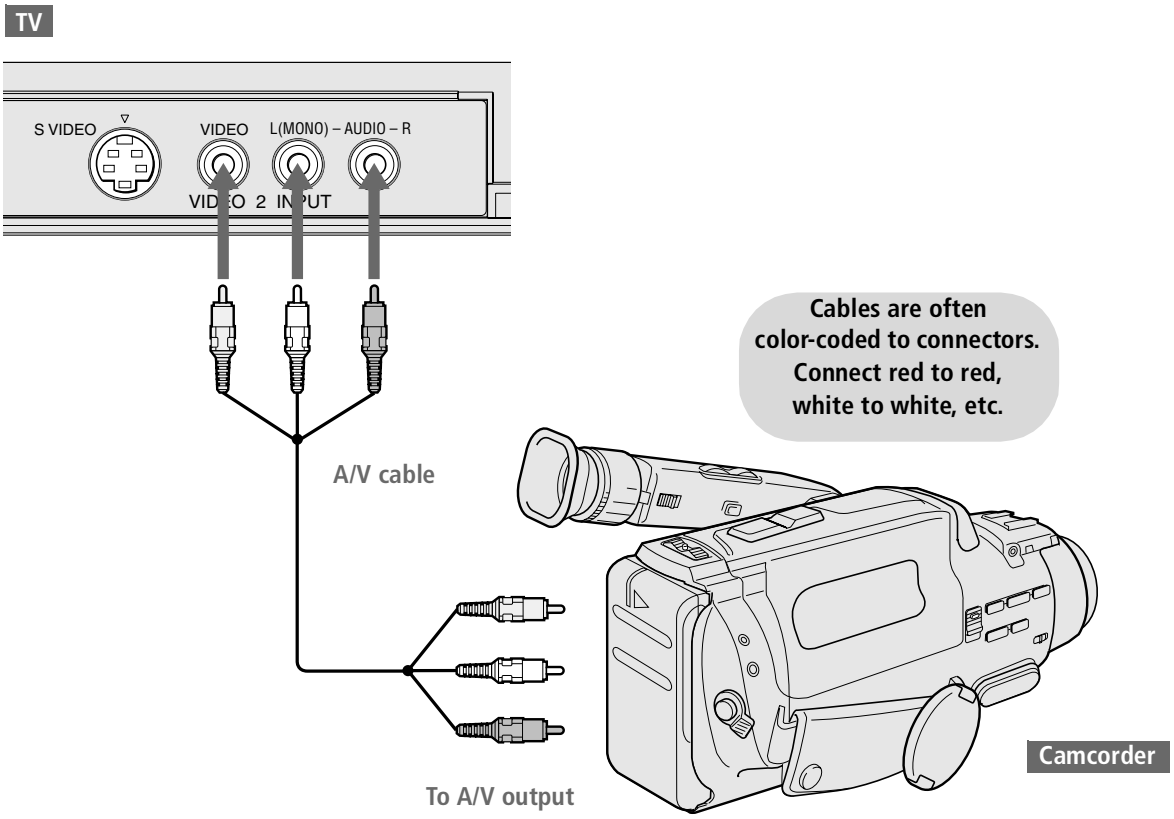
Camcorder

Using S VIDEO jacks? See page 21.

For easy connection of a camcorder, the TV has front A/V input jacks. If you prefer, however, you can connect the camcorder to the TV's rear A/V input jacks.

To connect a camcorder

1 Use A/V cables to connect the camcorder's A/V output jacks to the TV's A/V input jacks.



If you have a mono camcorder, connect its audio output jack to the TV's L MONO audio jack.

Notes on Using This Connection

To Do This ...	*Do This ...*
Watch the camcorder	Press TV/VIDEO repeatedly to select the camcorder input (VIDEO 2 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

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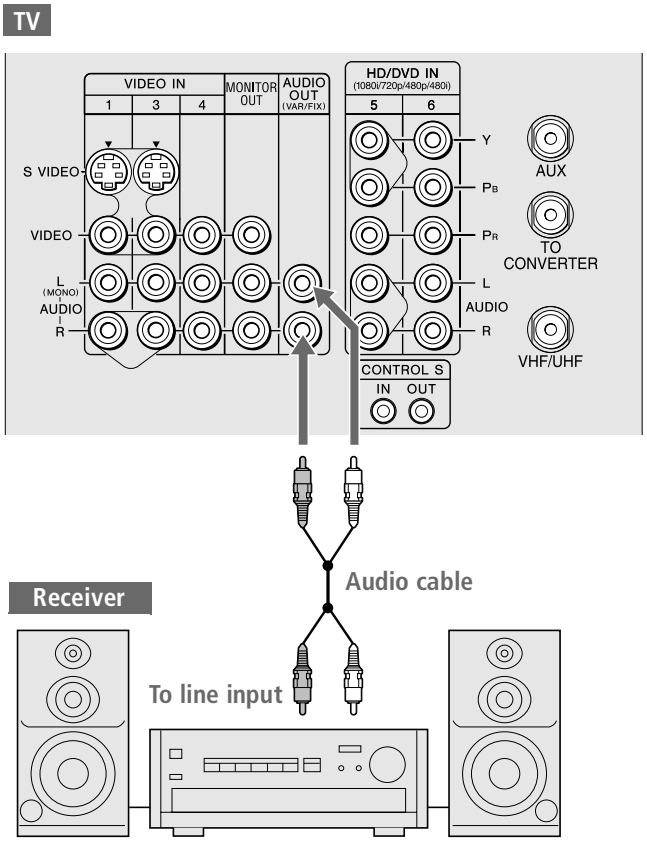
Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system.

To connect an audio system

1 Use an audio cable to connect the TV's audio output jacks to the audio receiver's line input jacks.



Cables are often color-coded to connectors. Connect red to red, white to white.

2 Using the TV's Audio Menu, set the Speaker option to Off. Then set the Audio Out option to Fixed or Variable, depending on how you want to control the volume. For details, see "Using the Audio Menu" on page 68.

3 Turn on the audio receiver, and then set the receiver's line input to the jack into which you connected the TV.

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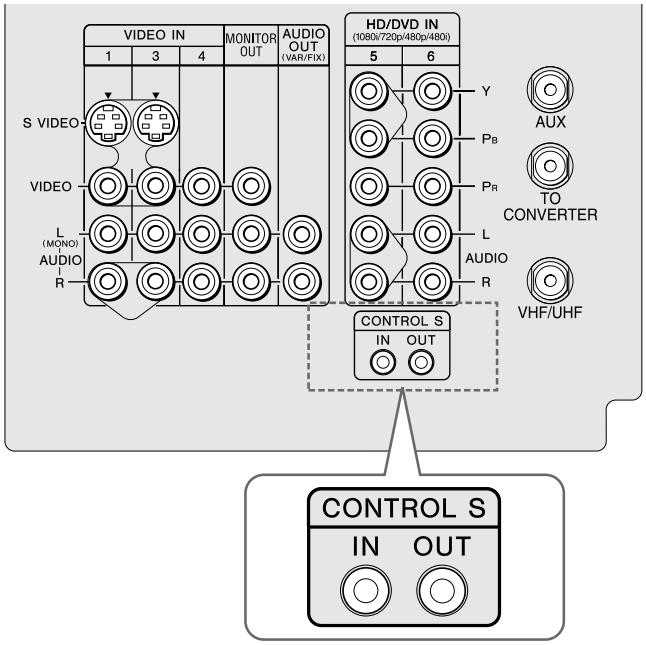
Using the CONTROL S Feature

CONTROL S allows you to control your system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.

Use CONTROL S IN to send signals to the TV.

Use CONTROL S OUT to send signals to connected equipment.



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Setting Up the Channel List

After you finish connecting your TV, you need to run Auto Setup to set up your channels. The Auto Setup screen appears when you turn on your TV for the first time after hooking it up. If you do not want to set up the channels at this time, you can do it later by selecting the Auto Program option in the Channel Menu (see page 72).

✍ **The Auto Setup feature does not apply for installations that use a cable box for all channel selection.**

Using Auto Setup

1. Press POWER to turn on the TV.
2. Press TV FUNCTION on the remote control.
3. To continue running Auto Setup, press CH+. To exit Auto Setup, press CH-.

Auto Setup automatically creates a list of receivable channels. When finished, the lowest numbered channel is displayed.

To reset the TV to factory settings

1. Press POWER to turn on the TV.
2. Hold down RESET on the remote control.
3. Press TV POWER on the TV. (The TV will turn itself off, then back on.)
4. Release RESET.

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Specifications

Picture Tube	FD Trinitron® tube	
Antenna	75 ohm external terminal for VHF/UHF	
Television System	NTSC, American TV Standard	
Channel Coverage	VHF	2-13
	UHF	14-69
	CATV	1-125
Power Requirements	120V, 60 Hz	
Inputs/Outputs		
DVI-HDTV	1 terminal, 3.3V T.M.D.S., 50 ohms The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.	
Video (IN)	4 total (1 on front panel)	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (IN)	3 total (1 on front panel)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio (IN)	7 total (1 on front panel)	500 mVrms (100% modulation) Impedance: 47 kilohm
Component Video Input	2 (Y, P_B, P_R)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative; P_B: 0.7 Vp-p, 75 ohms P_R: 0.7 Vp-p, 75 ohms
CONTROL S (IN/OUT)	1	
Variable/Fixed Audio (OUT)	1	More than 408 mVrms at the maximum volume setting (Variable) More than 408 mVrms (Fixed) Impedance (output): 2 kilohms
Supplied Accessories	Remote Control	RM-Y191
	AA (R6) Batteries	2 supplied for remote control
Visible Screen Size	KV-30HS510	30 in (762 mm) picture measured diagonally
	KV-34HS510	34 in (863.6mm) picture measured diagonally
Actual CRT Size	KV-30HS510	32 in (812.8 mm) picture measured diagonally
	KV-34HS510	36 in (914.4 mm) picture measured diagonally
Speaker Output	7.5 W x 2 + 15 W subwoofer	
Dimensions (W x H x D)	KV-30HS510	898 x 576 x 564 mm (35 3/8 x 22 3/4 x 22 1/4 in)
	KV-34HS510	994 x 622 x 591 mm (39 1/8 x 24 1/2 x 23 1/4 in)
Mass	KV-30HS510	76 kg (167 lbs, 9 oz)
	KV-34HS510	91 kg (201 lbs)
Power Consumption	In Use	280 W
	In Standby	1 W

Design and specifications are subject to change without notice.

Optional Accessories

- ❑ A/V Cable (VMC-810/820/830 HG)
- ❑ Audio Cable (RKC-515HG)
- ❑ Component Video Cable (VMC-10/30 HG)
- ❑ TV Stand for KV-30HS510: SU-30HS1
  TV Stand for KV-34HS510: SU-34HS1
- ❑ Memory Stick media: 8 MB (MSA-8A); 16 MB (MSA-16A); 32 MB (MSA-32A); 64 MB (MSA-64A); 128 MB (MSA-128A)

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SONY

Color TV

LIMITED WARRANTY

This warranty is applicable to U.S. residents only. If you are a Canadian resident, see the separately enclosed warranty for your product.

Sony Electronics Inc. (“Sony”) warrants this Product (including any accessories) against defects in material or workmanship, subject to any conditions set forth as follows:

1. LABOR: For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.
2. PARTS: In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year (color picture tube- two (2) years). After 90 days from the date of purchase, labor for removal and installation is available from Sony authorized service facilities or a Sony Service Center at your expense.
3. ACCESSORIES: Parts and labor for all accessories are for one (1) year.

In-home diagnostic warranty service is provided during the initial 90 day period for 19” (measured diagonally), or larger screen size through a Sony authorized service facility.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree or protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allows limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, Sony Electronics Inc. has established telephone numbers for frequently asked questions:

To locate the servicer or dealer nearest you, or for service assistance or resolution of a service problem, or for product information or operation, call:

Sony Customer Information Service Center
1-(800)-222-7669

Or visit the Sony Web Site:
www.sony.com

For an accessory or part not available from your authorized dealer, call:

1-(800)-488-SONY(7669)

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